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## Contents

### **1.1 libyuarel 2016**

1.1.1 Available under license

### **1.2 libtirpc 0.2.5**

1.2.1 Available under license

### **1.3 acl 2.2.52**

1.3.1 Available under license

### **1.4 sqlite 3.28.0**

1.4.1 Available under license

### **1.5 tar 1.27.1**

1.5.1 Available under license

### **1.6 hd-parm 9.32-1**

1.6.1 Available under license

### **1.7 pcre 8.40**

1.7.1 Available under license

### **1.8 elfutils 0.163 3.e17**

1.8.1 Available under license

### **1.9 lua 5.1.4 14.e17**

1.9.1 Available under license

### **1.10 rsync 3.1.3**

1.10.1 Available under license

### **1.11 ncurses 6.1+20180630**

1.11.1 Available under license

### **1.12 jansson 2.4 6.e17**

1.12.1 Available under license

### **1.13 beecrypt 4.2.1**

1.13.1 Available under license

- 1.14 libuv 1.30.1**
  - 1.14.1 Available under license
- 1.15 base-64 1.0.0**
  - 1.15.1 Available under license
- 1.16 tcp-wrappers 7.6 77.e17**
  - 1.16.1 Available under license
- 1.17 talloc 2.1.14**
  - 1.17.1 Available under license
- 1.18 libffi 3.1.1**
  - 1.18.1 Available under license
- 1.19 libssh2 0.18**
  - 1.19.1 Available under license
- 1.20 ini-parser 3.0**
  - 1.20.1 Available under license
- 1.21 binutils 2.24**
  - 1.21.1 Available under license
- 1.22 popt 1.16**
  - 1.22.1 Available under license
- 1.23 go-zap 1.0**
  - 1.23.1 Available under license
- 1.24 selinux 2.107-1.e17\_6**
  - 1.24.1 Available under license
- 1.25 libcipmi 1.0**
  - 1.25.1 Available under license
- 1.26 tcl 8.5.14**
  - 1.26.1 Available under license
- 1.27 autogen 4.9**
  - 1.27.1 Available under license
- 1.28 berkeley-db 6.0.30**
  - 1.28.1 Available under license
- 1.29 e2fsprogs 1.44.3**
  - 1.29.1 Available under license
- 1.30 sysv-init 2.88**
  - 1.30.1 Available under license
- 1.31 m4 1.4.17**
  - 1.31.1 Available under license
- 1.32 slang 2.2.4**
  - 1.32.1 Available under license
- 1.33 bash 4.2.37**

- 1.33.1 Available under license
- 1.34 dosfs-tools 4.1**
  - 1.34.1 Available under license
- 1.35 readline 6.2**
  - 1.35.1 Available under license
- 1.36 dhcp 4.4.1**
  - 1.36.1 Available under license
- 1.37 mii-tool 1.9.1.1**
  - 1.37.1 Available under license
- 1.38 shadow 4.6**
  - 1.38.1 Available under license
- 1.39 gmp 6.0.0**
  - 1.39.1 Available under license
- 1.40 netbsd-resolv 1.0-r2**
  - 1.40.1 Available under license
- 1.41 zlib 0.95**
  - 1.41.1 Available under license
- 1.42 kerberos 1.16.1**
  - 1.42.1 Available under license
- 1.43 sudo 1.8.10**
  - 1.43.1 Available under license
- 1.44 linux-kernel 4.18.45**
  - 1.44.1 Available under license
- 1.45 nmap 7.40**
  - 1.45.1 Available under license
- 1.46 wxwidgets 2.9.4**
  - 1.46.1 Available under license
- 1.47 hunspell 1.7.0**
  - 1.47.1 Available under license
- 1.48 libpng 1.4.12**
  - 1.48.1 Available under license
- 1.49 cracklib 2.9.5**
  - 1.49.1 Available under license
- 1.50 libtiff 3.9.4-11.e17**
  - 1.50.1 Available under license
- 1.51 libbsd 0.9.1**
  - 1.51.1 Available under license
- 1.52 free-type 2.4.11**
  - 1.52.1 Available under license

- 1.53 https2 0.1.4**
  - 1.53.1 Available under license
- 1.54 cpio 2.11 24.e17**
  - 1.54.1 Available under license
- 1.55 zeromq 4.0.4**
  - 1.55.1 Available under license
- 1.56 json-c 1.7.10**
  - 1.56.1 Available under license
- 1.57 libssh 1.8.0**
  - 1.57.1 Available under license
- 1.58 bzip2 1.0.6 13.e17**
  - 1.58.1 Available under license
- 1.59 libpwquality 1.2.3-4.e17**
  - 1.59.1 Available under license
- 1.60 zlib 1.2.7**
  - 1.60.1 Available under license
- 1.61 rng-tools 5**
  - 1.61.1 Available under license
- 1.62 findutils 4.6.0**
  - 1.62.1 Available under license
- 1.63 libxslt 1.1.28**
  - 1.63.1 Available under license
- 1.64 zlib 1.2.1.2**
  - 1.64.1 Available under license
- 1.65 libxslt 1.1.32**
  - 1.65.1 Available under license
- 1.66 libxml 2.9.8**
  - 1.66.1 Available under license
- 1.67 glibc 2.24**
  - 1.67.1 Available under license
- 1.68 libjpeg 1.2.90 5.e17**
  - 1.68.1 Available under license
- 1.69 nss 3.28.4 8.e17**
  - 1.69.1 Available under license
- 1.70 xinetd 2.3.15**
  - 1.70.1 Available under license
- 1.71 fcgi 2.4.1+SNAP+0311112127**
  - 1.71.1 Available under license
- 1.72 netkit-tftp 5.2**

1.72.1 Available under license  
**1.73 nss 3.21.0-9.el7\_2**  
1.73.1 Available under license  
**1.74 vim 8.1.0347**  
**1.75 libaio 0.3.111**  
1.75.1 Available under license  
**1.76 tdb 1.42.9**  
1.76.1 Available under license  
**1.77 dnsmasq 2.79**  
1.77.1 Available under license  
**1.78 json-cpp 1.8.4**  
1.78.1 Available under license  
**1.79 xfsprogs 4.18.0**  
1.79.1 Available under license  
**1.80 libnfsidmap 0.25**  
1.80.1 Available under license  
**1.81 pango 1.6.0**  
1.81.1 Available under license  
**1.82 libnl3 3.2.21-10.el7**  
1.82.1 Available under license  
**1.83 mdadm 4.1**  
1.83.1 Available under license  
**1.84 libev 4.25**  
1.84.1 Available under license  
**1.85 mini-xml 2.6**  
1.85.1 Available under license  
**1.86 glibc 2.17-196.el7**  
1.86.1 Available under license  
**1.87 gdbm 1.18**  
1.87.1 Available under license  
**1.88 libxml 2.9.1**  
1.88.1 Available under license  
**1.89 libcap 2.25**  
1.89.1 Available under license  
**1.90 libcap 2.22 8.el7**  
1.90.1 Available under license  
**1.91 libcheck 0.9.14**  
1.91.1 Available under license  
**1.92 perl 5.24.4**

1.92.1 Available under license

**1.93 pkix-ssh 12.1**

1.93.1 Available under license

**1.94 csrp 1.0**

1.94.1 Available under license

**1.95 xz 5.2.2 1.el7**

1.95.1 Available under license

**1.96 zlib 1.2.3**

1.96.1 Available under license

**1.97 open-iscsi 2.4.40-9.el7\_2**

1.97.1 Available under license

**1.98 libgcrypt 1.8.4**

1.98.1 Available under license

**1.99 gettext 0.20.1-r2**

1.99.1 Available under license

**1.100 ppp 2.4.5**

1.100.1 Notifications

1.100.2 Available under license

**1.101 iptables 1.4.19.1**

1.101.1 Available under license

**1.102 open-ldap 2.4.48**

**1.103 i2c-tools 3.1**

1.103.1 Available under license

**1.104 lshw B.02.17 12.el7**

1.104.1 Available under license

**1.105 expat 2.2.0**

1.105.1 Available under license

**1.106 zip 3.0-10.el7**

1.106.1 Available under license

**1.107 protobuf 3.6.1**

**1.108 curl 7.61.0**

1.108.1 Available under license

**1.109 libpng 1.2.44**

1.109.1 Available under license

**1.110 coreutils 8.22-15.el7\_2.1**

1.110.1 Available under license

**1.111 ntp 4.2.8p12**

1.111.1 Available under license

**1.112 hd-parm 9.56**

1.112.1 Available under license  
**1.113 libdevmapper 2.02.180**  
1.113.1 Available under license  
**1.114 iproute 4.19.0**  
1.114.1 Available under license  
**1.115 wireshark 2.6.17**  
1.115.1 Available under license  
**1.116 tar 1.23**  
1.116.1 Available under license  
**1.117 util-linux 2.24.2**  
1.117.1 Available under license  
**1.118 open-ldap 2.4.46**  
1.118.1 Available under license  
**1.119 lua 5.3.3**  
**1.120 lsof 4.87**  
1.120.1 Available under license  
**1.121 tcl 8.5.8**  
1.121.1 Available under license  
**1.122 tftp-hpa 5.2**  
1.122.1 Available under license  
**1.123 linux-kernel 3.14.39ltsi**  
1.123.1 Available under license  
**1.124 libdevmapper 2.02.97-r4.0**  
1.124.1 Available under license  
**1.125 openssl 0.9.8w**  
1.125.1 Available under license  
**1.126 icu 53**  
1.126.1 Available under license  
**1.127 util-linux 2.32.1**  
1.127.1 Available under license  
**1.128 nettle 3.4**  
1.128.1 Available under license  
**1.129 less 530**  
1.129.1 Available under license  
**1.130 libtasn 4.13**  
1.130.1 Available under license  
**1.131 xz 5.1.3alpha**  
1.131.1 Available under license  
**1.132 bind 9.9.5**



- 1.132.1 Available under license
- 1.133 libuser 0.60-7.el7\_1**
  - 1.133.1 Available under license
- 1.134 udev 3.2.5**
  - 1.134.1 Available under license
- 1.135 kmod 18+gitAUTOINC+ae58de0fcb**
  - 1.135.1 Available under license
- 1.136 systemtap 2.8 10.el7**
  - 1.136.1 Available under license
- 1.137 libpgp-error 1.12**
  - 1.137.1 Available under license
- 1.138 dosfs-tools 2.11**
  - 1.138.1 Available under license
- 1.139 apr-util 1.6.1**
  - 1.139.1 Available under license
- 1.140 gzip 1.6**
  - 1.140.1 Available under license
- 1.141 zlib 1.2.5**
  - 1.141.1 Available under license
- 1.142 fontconfig 2.12.6**
  - 1.142.1 Available under license
- 1.143 cracklib 2.9.1**
  - 1.143.1 Available under license
- 1.144 kerberos 1.16**
  - 1.144.1 Available under license
- 1.145 cryptsetup 2.0.4**
  - 1.145.1 Available under license
- 1.146 gawk 4.1.1**
  - 1.146.1 Available under license
- 1.147 bison 2.7.12**
  - 1.147.1 Available under license
- 1.148 ncurses 6.0**
  - 1.148.1 Available under license
- 1.149 syslog-ng 3.16.1**
  - 1.149.1 Available under license
- 1.150 libxcb 1.13 1.el7**
  - 1.150.1 Available under license
- 1.151 bzip2 1.0.6**
  - 1.151.1 Available under license

**1.152 lvm2 2.02.180**

1.152.1 Available under license

**1.153 ipmi-tool 1.8.18**

1.153.1 Available under license

**1.154 nspr 4.11.0 1.el7\_2**

1.154.1 Available under license

**1.155 findutils 4.5.11 5.el7**

1.155.1 Available under license

**1.156 libssh2 1.4.3-10.el7\_2.1**

1.156.1 Available under license

**1.157 tinyxml-2 3.0.0**

1.157.1 Available under license

**1.158 openssl 0.9.8g**

1.158.1 Available under license

**1.159 cyrus-sasl 2.1.26-21.el7**

1.159.1 Available under license

**1.160 netperf 2.6.0**

1.160.1 Available under license

**1.161 squashfs-tools 4.2**

1.161.1 Available under license

**1.162 netkit-tftp 1.0**

1.162.1 Available under license

**1.163 bind 9.9.4 50.el7**

1.163.1 Available under license

**1.164 u-boot 1.3.0**

1.164.1 Available under license

**1.165 libtool-libltdl 2.4.2**

1.165.1 Available under license

**1.166 go 1.0**

1.166.1 Available under license

**1.167 recode 3.6**

1.167.1 Available under license

**1.168 elfutils 0.168-8.el7**

1.168.1 Available under license

**1.169 gir1.2-gdkpixbuf-2.0 2.24.1**

1.169.1 Available under license

**1.170 libssh 0.18**

1.170.1 Available under license

**1.171 shadow 4.1.5.1-18.el7**

1.171.1 Available under license

**1.172 glibc 2.28**

1.172.1 Available under license

**1.173 rsyslog 8.1908.0**

1.173.1 Available under license

**1.174 flex 2.5.39**

1.174.1 Available under license

**1.175 sqlite 3.23.1**

1.175.1 Available under license

**1.176 libatasmart 0.18-3**

1.176.1 Available under license

**1.177 dhcp 4.3.0**

1.177.1 Available under license

**1.178 less 466**

1.178.1 Available under license

**1.179 libusb 1.0.8**

1.179.1 Available under license

**1.180 libxdmcp 1.1.2-r2**

1.180.1 Available under license

**1.181 pcre 8.44**

1.181.1 Available under license

**1.182 libusb 1.0.22**

1.182.1 Available under license

**1.183 openssh 8.0**

1.183.1 Available under license

**1.184 libteam 1.17-7.e17\_2**

1.184.1 Available under license

**1.185 pcre 8.38**

1.185.1 Available under license

**1.186 grub 2.16**

1.186.1 Available under license

**1.187 tcl 8.3.3**

1.187.1 Available under license

**1.188 tcl 8.6.1**

1.188.1 Available under license

**1.189 attr 2.4.46 12.e17**

1.189.1 Available under license

**1.190 mod-security 2.9.0**

1.190.1 Available under license

### **1.191 python 2.7.17**

1.191.1 Available under license

### **1.192 libmnl 1.0.4**

1.192.1 Available under license

### **1.193 zlib 1.2.11**

1.193.1 Available under license

### **1.194 libvirt 4.7.0**

1.194.1 Available under license

### **1.195 tcpdump 3.8.3**

1.195.1 Available under license

### **1.196 mtd-utils 1.5.0**

1.196.1 Available under license

### **1.197 cpio 2.12**

1.197.1 Available under license

### **1.198 grub 0.97**

1.198.1 Available under license

### **1.199 iputils 20121221-7.el7**

1.199.1 Available under license

### **1.200 findutils 4.4.2**

1.200.1 Available under license

### **1.201 strace 4.10**

1.201.1 Available under license

### **1.202 bash 4.4.23**

1.202.1 Available under license

### **1.203 lasso 2.5.1**

1.203.1 Available under license

### **1.204 netcat-openbsd 1.190**

1.204.1 Available under license

### **1.205 libidn 1.33 1**

1.205.1 Available under license

### **1.206 iputils s20180629**

1.206.1 Available under license

### **1.207 lvm2 2.02.97**

1.207.1 Available under license

### **1.208 rng-tools 6.5**

1.208.1 Available under license

### **1.209 busybox 1.21.0**

1.209.1 Available under license

### **1.210 sqlite 3.0.0**

- 1.210.1 Available under license
- 1.211 psmisc 22.21**
  - 1.211.1 Available under license
- 1.212 diffutils 3.3-4.el7**
  - 1.212.1 Available under license
- 1.213 ed 1.9**
  - 1.213.1 Available under license
- 1.214 sblim-sfcb 1.3.3-040609**
  - 1.214.1 Available under license
- 1.215 screen 4.6.2**
  - 1.215.1 Available under license
- 1.216 jemalloc 5.2.1**
  - 1.216.1 Available under license
- 1.217 smartmontools 7.0**
  - 1.217.1 Available under license
- 1.218 ntp 4.2.8p11**
  - 1.218.1 Available under license
- 1.219 libcroco 0.6.12**
  - 1.219.1 Available under license
- 1.220 mesa 18.3.4**
  - 1.220.1 Available under license
- 1.221 fcgi 2.4.0-25.el7**
  - 1.221.1 Available under license
- 1.222 libpcap 0.9.5**
  - 1.222.1 Available under license
- 1.223 expat 1.95.6**
  - 1.223.1 Available under license
- 1.224 plymouth 0.8.9 0.24.20140113.el7.centos**
  - 1.224.1 Available under license
- 1.225 usb-modeswitch 1.2.7 6.el7**
  - 1.225.1 Available under license
- 1.226 python 3.3.0**
  - 1.226.1 Available under license
- 1.227 expat 2.2.9**
  - 1.227.1 Available under license
- 1.228 zeromq 4.2.3**
  - 1.228.1 Available under license
- 1.229 sudo 1.8.23**
  - 1.229.1 Available under license

### **1.230 libxcursor 1.1.13**

1.230.1 Available under license

### **1.231 smartmontools 6.6**

1.231.1 Available under license

### **1.232 bash 4.2.46-20.el7\_2**

1.232.1 Available under license

### **1.233 xz 5.1.2-12alpha.el7**

1.233.1 Available under license

### **1.234 dtc 1.4.7**

1.234.1 Available under license

### **1.235 raritan-ipmi 1 1**

1.235.1 Available under license

### **1.236 icu 62**

1.236.1 Available under license

### **1.237 iproute 3.10.0 87.el7**

1.237.1 Available under license

### **1.238 shadow 4.2.1**

1.238.1 Available under license

### **1.239 biosdevname 0.6.2 1.el7**

1.239.1 Available under license

### **1.240 libxt 1.2.0**

1.240.1 Available under license

### **1.241 autogen 5.18-5**

1.241.1 Available under license

### **1.242 libpciaccess 0.14**

1.242.1 Available under license

### **1.243 openssl-fipsanister 1.35-9.el6**

1.243.1 Available under license

### **1.244 audit 2.6.5 3.el7**

1.244.1 Available under license

### **1.245 nfs-utils 1.3.0**

1.245.1 Available under license

### **1.246 libusb 1.0.19**

1.246.1 Available under license

### **1.247 smartmontools 6.4**

1.247.1 Available under license

### **1.248 pcre 8.35**

1.248.1 Available under license

### **1.249 parted 3.2**

1.249.1 Available under license  
**1.250 less 458 9.e17**  
1.250.1 Available under license  
**1.251 json-c 0.13.1**  
1.251.1 Available under license  
**1.252 atk 1.33.6**  
1.252.1 Available under license  
**1.253 sysstat 11.7.4**  
1.253.1 Available under license  
**1.254 libiniparser 3.0**  
1.254.1 Available under license  
**1.255 d-bus 1.6.12-14.e17\_2**  
1.255.1 Available under license  
**1.256 bind 9.11.4**  
1.256.1 Available under license  
**1.257 bash 4.3.30**  
1.257.1 Available under license  
**1.258 pcre 8.42**  
1.258.1 Available under license  
**1.259 libsepol 2.1.9 3.e17**  
1.259.1 Available under license  
**1.260 sysklogd 1.4.1**  
1.260.1 Available under license  
**1.261 libestr 0.1.11-1**  
1.261.1 Available under license  
**1.262 udev 219 57.e17**  
1.262.1 Available under license  
**1.263 pciutils 3.6.2**  
1.263.1 Available under license  
**1.264 pam 1.3.0**  
1.264.1 Available under license  
**1.265 protobuf-c 1.3.1**  
1.265.1 Available under license  
**1.266 efibootmgr 0.8.0 10.e17**  
1.266.1 Available under license  
**1.267 xz 5.2.4**  
1.267.1 Available under license  
**1.268 curl 7.54.0**  
1.268.1 Available under license

- 1.269 strace 4.12**
  - 1.269.1 Available under license
- 1.270 u-boot 2012.10**
  - 1.270.1 Available under license
- 1.271 apr-util 1.5.4**
  - 1.271.1 Available under license
- 1.272 gzip 1.5 8.el7**
  - 1.272.1 Available under license
- 1.273 e2fsprogs 1.43**
  - 1.273.1 Available under license
- 1.274 jquery 1.7.2**
  - 1.274.1 Available under license
- 1.275 iproute 3.10.0-54.el7\_2.1**
  - 1.275.1 Available under license
- 1.276 bmc-cimc-device-drivers 1.0/1.1 1.0**
  - 1.276.1 Available under license
- 1.277 lsof 4.91**
  - 1.277.1 Available under license
- 1.278 tftp-hpa 0.49**
  - 1.278.1 Available under license
- 1.279 apache 2.4.16**
  - 1.279.1 Available under license
- 1.280 libcrypt 1.5.3 12.el7\_1.1**
  - 1.280.1 Available under license
- 1.281 wget 1.15**
  - 1.281.1 Available under license
- 1.282 libusb 1.0.18**
  - 1.282.1 Available under license
- 1.283 systemd-shim 219-19.el7\_2.13**
  - 1.283.1 Available under license
- 1.284 busybox 1.29.2**
  - 1.284.1 Available under license
- 1.285 apr 1.5.1**
  - 1.285.1 Available under license
- 1.286 libpcap 1.3.0**
  - 1.286.1 Available under license
- 1.287 openssl 0.9.8e-29.el7.centos.3**
  - 1.287.1 Available under license
- 1.288 uclibc 1.3.3-040609**



1.288.1 Available under license  
**1.289 tar 1.30**  
1.289.1 Available under license  
**1.290 gettext 0.18.3.2**  
1.290.1 Available under license  
**1.291 util-md5 2.4.12**  
1.291.1 Available under license  
**1.292 unzip 6.0**  
1.292.1 Available under license  
**1.293 fdisk 2.32.1**  
1.293.1 Available under license  
**1.294 libsoup 2.36.1**  
**1.295 ftpd 1.9.2**  
1.295.1 Available under license  
**1.296 glibc 2.20**  
1.296.1 Available under license  
**1.297 sql-cipher 3.0.0**  
1.297.1 Available under license  
**1.298 cyrus-sasl 2.1.26 20.el7\_2**  
1.298.1 Available under license  
**1.299 libpgp-error 1.12-3.el7**  
1.299.1 Available under license  
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## 1.4 sqlite 3.28.0

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# 1.5 tar 1.27.1

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# 1.11 ncurses 6.1+20180630

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## 1.12 jansson 2.4 6.el7

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I would like to thank the following people (in alphabetical order):

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Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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## 1.25 libcipmi 1.0

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## 1.26 tcl 8.5.14

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@small example

@group

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```
@end group
@end smallexample
```

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```
@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
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```

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

```
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```

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## 1.28 berkeley-db 6.0.30

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\*

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\*

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\* for making modifications to it. "Object code" means any non-source

\* form of a work.

\*

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\* standard defined by a recognized standards body, or, in the case of

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\*

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\*

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\*

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- \* more than your reasonable cost of physically performing this
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```
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  <title>License Change</title>
  <link rel="stylesheet" href="gettingStarted.css" type="text/css" />
  <meta name="generator" content="DocBook XSL Stylesheets V1.73.2" />
  <link rel="start" href="index.html" title="Berkeley DB Installation and Build Guide" />
  <link rel="up" href="upgrade_60_toc.html" title="Chapter9. Upgrading Berkeley DB 11.2.5.3 applications to Berkeley DB 12.1.6.0" />
  <link rel="prev" href="compare_func.html" title="Comparison Function Signature Change" />
  <link rel="next" href="sqlite_ver60.html" title="Updated SQLite Version" />
```

```

</head>
<body>
  <div xmlns="" class="navheader">
    <div class="libver">
      <p>Library Version 12.1.6.0</p>
    </div>
    <table width="100%" summary="Navigation header">
      <tr>
        <th colspan="3" align="center">License Change</th>
      </tr>
      <tr>
        <td width="20%" align="left"><a accesskey="p" href="compare_func.html">Prev</a></td>
        <th width="60%" align="center">Chapter9.
          Upgrading Berkeley DB 11.2.5.3 applications to Berkeley DB 12.1.6.0
        </th>
        <td width="20%" align="right"><a accesskey="n" href="sqlite_ver60.html">Next</a></td>
      </tr>
    </table>
    <hr />
  </div>
  <div class="sect1" lang="en" xml:lang="en">
    <div class="titlepage">
      <div>
        <div>
          <h2 class="title" style="clear: both"><a id="license_change60"></a>License Change</h2>
        </div>
      </div>
    </div>
    <p>
      Starting with the 6.0 / 12c releases, all Berkeley DB products are
      licensed under the GNU AFFERO GENERAL PUBLIC LICENSE (AGPL), version 3.
      This license is published by the Free Software Foundation (FSF)
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      upgrading to the 12c release. Previous releases of Berkeley DB software
      will continue to be distributed under the Sleepycat license.
    </p>
  </div>
  <div class="navfooter">
    <hr />
    <table width="100%" summary="Navigation footer">
      <tr>
        <td width="40%" align="left"><a accesskey="p" href="compare_func.html">Prev</a></td>
        <td width="20%" align="center">
          <a accesskey="u" href="upgrade_60_toc.html">Up</a>
        </td>
      </tr>
    </table>
  </div>

```

```
<td width="40%" align="right"><a accesskey="n" href="sqlite_ver60.html">Next</a></td>
</tr>
<tr>
<td width="40%" align="left" valign="top">Comparison Function Signature Change</td>
<td width="20%" align="center">
<a accesskey="h" href="index.html">Home</a>
</td>
<td width="40%" align="right" valign="top">Updated SQLite Version</td>
</tr>
</table>
</div>
</body>
</html>
```

This package was debianized by Sam Clegg <samo@debian.org> on  
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It was downloaded from <<http://www.ch-werner.de/sqliteodbc/>>

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```
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<head>
<title>Berkeley DB: Berkeley DB Product License</title>
<meta name="description" content="Berkeley DB: An embedded database programmatic toolkit.">
<meta name="keywords"
content="embedded,database,programmatic,toolkit,btree,hash,hashing,transaction,transactions,locking,logging,access
method,access methods,Java,C,C++">
</head>
<body bgcolor=white>
<p align=center><b>Berkeley DB Product License</b></p>
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in the "LICENSE" file included in each Berkeley DB distribution.</p>
<p>For a license to use the Berkeley DB software under conditions other than
those described in the "LICENSE" file, or to purchase support for this
software, please send email to
<a href="mailto:berkeleydb-info_us@oracle.com">berkeleydb-info_us@oracle.com</a>.</p>
<p><font size=1>Copyright (c) 1996, 2014 Oracle and/or its affiliates. All rights reserved.</font>
</body>
</html>
```

## 1.29 e2fsprogs 1.44.3

### 1.29.1 Available under license :

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
-



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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card  
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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```
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# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB)`)

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
```

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

[tsx-11.mit.edu:/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu:/pub/linux/packages/ext2fs/)

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## 1.30 sysv-init 2.88

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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## 1.31 m4 1.4.17



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## 1.32 slang 2.2.4

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```
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```

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## 1.33 bash 4.2.37

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## 1.34 dosfs-tools 4.1

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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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</xsl:text>

</xsl:variable>

<xsl:variable name="isc.copyright">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text">

<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">

<xsl:text>Copyright (C) </xsl:text>

<xsl:call-template name="copyright.years">

<xsl:with-param name="years" select="year"/>

</xsl:call-template>

```
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
  <xsl:value-of select="$isc.copyright.breakline"/>
<xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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## 1.38 shadow 4.6

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## 1.40 netbsd-resolv 1.0-r2

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cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
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lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
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lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
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lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c

lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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```
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```

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```

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jloup@gzip.org      madler@alumni.caltech.edu

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Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
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Blttermann, Mario  
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Castro, Felipe  
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## 1.44 linux-kernel 4.18.45

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create  
\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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Table of Contents

- \* GNU GENERAL PUBLIC LICENSE
  - o Preamble
  - o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  - o How to Apply These Terms to Your New Programs

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Table of Contents

- \* GNU GENERAL PUBLIC LICENSE
  - o Preamble
  - o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  - o How to Apply These Terms to Your New Programs

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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THE C++ WRAPPER FUNCTIONS

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End

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\$Id: 3rd-party-licenses.txt 29907 2012-10-02 00:53:12Z david \$

This file is a list of the licenses of the third-party software used by Nmap and the other tools distributed with it. What follows is a description of each third-party package. At the end of this file is the license of each. The license of Nmap itself is in the COPYING file.

On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
<http://www.tcpdump.org/>
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.  
<http://code.google.com/p/libdnet/>
- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
<http://www.pcre.org/>
- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.  
<http://www.lua.org/>
- o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.  
<http://www.openssl.org/>
- o LIBLINEAR. Used for IPv6 OS classification.  
<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>
- o libsvn. The Subversion library, used by the updater program nmap-update. <http://subversion.apache.org/>
- o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

- o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.  
<http://www.winpcap.org/>

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:

- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.  
<http://www.python.org/>

The Windows and Mac OS X binary packages include bundled versions of:

- o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.  
<http://www.gtk.org/>



- o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.  
<http://www.cairographics.org/>
- o libgailutil: Accessibility support for GTK+.
- o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.  
<http://www.libpng.org/> <http://www.ijg.org/> <http://www.libtiff.org/>
- o zlib and bzip2: compression libraries.  
<http://www.zlib.org/> <http://www.bzip.org/>
- o Expat: XML parser library.  
<http://expat.sourceforge.net/>
- o fontconfig: font configuration library.  
<http://www.fontconfig.org/>
- o FreeType: font rendering library.  
<http://www.freetype.org/>
- o libiconv. Under the GNU LGPL 2.  
<http://www.gnu.org/software/libiconv/>
- o libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.  
<http://www.gnu.org/software/gettext/>
- o libxml2: XML parsing library.  
<http://xmlsoft.org/>
- o SQLite.  
<http://www.sqlite.org/>
- o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.  
<http://www.pygtk.org/>
- o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:

- o Various X.org libraries. These were built using MacPorts.  
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```
<signature of Ty Coon>, 1 April 1989
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```
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This package was debianized by Ron Lee <ron@debian.org> on

Sun, 13 Feb 2000 18:40:00 +1030.

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-- Ron

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\*

\* An almost complete rewrite of MySpell for use by  
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\* (Deinst@world.std.com). David and I are now  
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\* of MySpell back into a single tree. David has been  
\* a significant help in improving MySpell.

\*

\* Special thanks also go to La'szlo' Ne'meth  
\* <nemethl@gyorsposta.hu> who is the author of the  
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\* the code to support compound words in MySpell  
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```
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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```
Gnomovision version 69, Copyright (C) year name of author  
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```

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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---

## 1.49 cracklib 2.9.5

### 1.49.1 Available under license :

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly  
and see if he wants to relicense his code as LGPL... but at this point,  
it was enough to just get it consistent and documented as to what it was  
released under. This wasn't actually a license change, just a  
clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=20  
=20mike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec  
> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,  
>> it was enough to just get it consistent and documented as to what  
> it was  
>> released under. This wasn't actually a license change, just a  
>> clarification of the licensing that was already in place.  
>=20  
> the original license (before moving to sourceforge -- aka, 2.7) was  
> not  
> GPL-2 ... it was a modified artistic license ... i didnt notice the  
> license  
> change until it was mentioned in the latest notes.  
>=20  
> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a

>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
>> I am sympathetic. Guys, what do you reckon?  
>>  
>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...  
>  
> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
>  
> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
>> make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----  
From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)



In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
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man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
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man/setproctitle.3bsd

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src/humanize\_number.c  
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man/pidfile.3bsd  
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man/readpassphrase.3bsd  
man/strlcpy.3bsd  
man/strtonum.3bsd  
src/arc4random.c  
src/arc4random\_linux.h  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
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src/getentropy\_win.c  
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src/hash/md5.c

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## 1.52 free-type 2.4.11

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# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
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#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
```

```
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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```

```
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```
/*
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 * This 'beam me up, Scotty'-branch of httpfs tries to achieve,
 * that the mount-point-folder behaves as before.
 * But how can you access the original folder after the mount?
 * Answer comes from FuseCompress:
 *   Open the folder before the mount,
 *   keep it open all the time,
 *   make a chdir to it
 *   and always use a relative path.
 * It suffices not to chdir in main() and it's unnecessary to
 * do it in every function. httpfs_init is the right place.
 *
 */
```

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# 1.54 cpio 2.11 24.el7

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Version 3, 29 June 2007

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## 1.55 zeromq 4.0.4

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Version 3, 29 June 2007

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## 1.56 json-c 1.7.10

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## 1.57 libssh 1.8.0

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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# 1.59 libpwquality 1.2.3-4.el7

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## 1.62 findutils 4.6.0

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017
```

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## 1.74 vim 8.1.0347

## 1.75 libaio 0.3.111

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## 1.76 tdb 1.42.9

### 1.76.1 Available under license :

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB)`)

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
```

\$(RM) -f \$(DESTDIR)\$BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu:/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu:/pub/linux/packages/ext2fs/)

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o  
23-June-2007

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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```

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```

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## 1.81 pango 1.6.0

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## 1.82 libnl3 3.2.21-10.el7

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## 1.84 libev 4.25

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# 1.85 mini-xml 2.6

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October 18, 2005

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That's all there is to it!

File loading code for Mini-XML, a small XML-like file parsing library.

\*

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\*

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/\*

\* list.c: lists handling implementation

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## 1.92 perl 5.24.4

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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The End

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abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;

use Config;

```

BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /\.*\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v

```

```
{  
  
my $output = runperl switches => ['-v'];  
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i  
  or die "Copyright statement not found in perl -v output '$output'";  
  
$year;  
}
```

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Version 1, February 1989

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```
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   version 1.2.11, January 15th, 2017
```

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```
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```

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```
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## 1.98 libgcrypt 1.8.4

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ppp-2.4.5/include/linux/ppp-comp.h  
ppp-2.4.5/include/net/ppp-comp.h

ppp-2.4.5/include/net/ppp\_defs.h

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ppp-2.4.5/include/net/pppio.h

ppp-2.4.5/modules/deflate.c

ppp-2.4.5/modules/if\_ppp.c

ppp-2.4.5/modules/ppp.c

ppp-2.4.5/modules/ppp\_comp.c

ppp-2.4.5/pppdump/deflate.c

ppp-2.4.5/pppdump/ppp-comp.h

ppp-2.4.5/solaris/ppp.c

ppp-2.4.5/solaris/ppp\_comp.c

ppp-2.4.5/solaris/ppp\_comp\_mod.c

ppp-2.4.5/solaris/ppp\_mod.c

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ppp-2.4.5/pppd/ccp.c

ppp-2.4.5/pppd/ccp.h

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ppp-2.4.5/pppd/multilink.c

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ppp-2.4.5/pppd/chap-md5.c

ppp-2.4.5/pppd/chap-md5.h

ppp-2.4.5/pppd/chap-new.c

ppp-2.4.5/pppd/chap-new.h

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ppp-2.4.5/include/linux/if\_ppp.h

ppp-2.4.5/include/net/if\_ppp.h

ppp-2.4.5/pppd/auth.c

ppp-2.4.5/pppd/fsm.c

ppp-2.4.5/pppd/fsm.h

ppp-2.4.5/pppd/ipcp.c

ppp-2.4.5/pppd/ipcp.h

ppp-2.4.5/pppd/ipv6cp.c

ppp-2.4.5/pppd/ipv6cp.h

ppp-2.4.5/pppd/ipxcp.c

ppp-2.4.5/pppd/ipxcp.h

ppp-2.4.5/pppd/lcp.c

ppp-2.4.5/pppd/lcp.h

ppp-2.4.5/pppd/magic.c

ppp-2.4.5/pppd/magic.h

ppp-2.4.5/pppd/main.c

ppp-2.4.5/pppd/options.c

ppp-2.4.5/pppd/pppd.h

ppp-2.4.5/pppd/session.c

ppp-2.4.5/pppd/sys-linux.c

ppp-2.4.5/pppd/sys-solaris.c

ppp-2.4.5/pppd/tty.c

ppp-2.4.5/pppd/upap.c

ppp-2.4.5/pppd/upap.h

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ppp-2.4.5/pppdump/bsd-comp.c

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ppp-2.4.5/include/net/slcompress.h

ppp-2.4.5/include/net/vjcompress.h

ppp-2.4.5/modules/vjcompress.c

ppp-2.4.5/pppstats/pppstats.c

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ppp-2.4.5/common/zlib.c  
ppp-2.4.5/common/zlib.h  
ppp-2.4.5/pppdump/zlib.c  
ppp-2.4.5/pppdump/zlib.h  
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gzip@prep.ai.mit.edu   madler@alumni.caltech.edu

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ppp-2.4.5/pppd/eui64.h  
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ppp-2.4.5/modules/ppp\_ahdlc.c

ppp-2.4.5/pppd/sys-solaris.c

ppp-2.4.5/solaris/ppp\_ahdlc.c

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- \* Updated to ppp-2.4.1 by Bernhard Kaindl
- \*
- \* Updated to ppp-2.4.2 by David Woodhouse 2004.
- \* - disconnect method added
- \* - remove\_options() abuse removed.
- \*
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ppp-2.4.5/pppd/plugins/radius/radattr.c  
ppp-2.4.5/pppd/plugins/rp-pppoe/common.c  
ppp-2.4.5/pppd/plugins/rp-pppoe/debug.c  
ppp-2.4.5/pppd/plugins/rp-pppoe/discovery.c  
ppp-2.4.5/pppd/plugins/rp-pppoe/if.c  
ppp-2.4.5/pppd/plugins/rp-pppoe/Makefile.linux  
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ppp-2.4.5/pppd/plugins/radius/clientid.c  
ppp-2.4.5/pppd/plugins/radius/config.c  
ppp-2.4.5/pppd/plugins/radius/dict.c  
ppp-2.4.5/pppd/plugins/radius/includes.h  
ppp-2.4.5/pppd/plugins/radius/ip\_util.c  
ppp-2.4.5/pppd/plugins/radius/lock.c  
ppp-2.4.5/pppd/plugins/radius/options.h  
ppp-2.4.5/pppd/plugins/radius/pathnames.h  
ppp-2.4.5/pppd/plugins/radius/radiusclient.h  
ppp-2.4.5/pppd/plugins/radius/sendserver.c

ppp-2.4.5/pppd/plugins/radius/util.c

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ppp-2.4.5/pppd/plugins/radius/includes.h

ppp-2.4.5/pppd/plugins/radius/ip\_util.c

ppp-2.4.5/pppd/plugins/radius/pathnames.h

ppp-2.4.5/pppd/plugins/radius/radiusclient.h

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ppp-2.4.5/pppd/plugins/radius/radrealms.c

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[...]

Unix SMB/CIFS implementation.  
Samba utility functions

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ppp-2.4.5/pppd/chap\_ms.c

ppp-2.4.5/pppd/chap\_ms.h

ppp-2.4.5/pppd/pppccrypt.c

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ppp-2.4.5/pppd/md5.c

ppp-2.4.5/pppd/md5.h

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ppp-2.4.5/pppd/session.c

/\*

\* session.c - PPP session control.

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ppp-2.4.5/include/linux/if\_pppol2tp.h

/\*  
\*\*\*\*\*  
\*/

\* Linux PPP over L2TP (PPPoL2TP) Socket Implementation (RFC 2661)

\*

\* This file supplies definitions required by the PPP over L2TP driver

\* (pppol2tp.c). All version information wrt this file is located in

\* pppol2tp.c

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\*/

ppp-2.4.5/pppd/plugins/pppol2tp/l2tp\_event.h

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ppp-2.4.5/pppd/plugins/pppol2tp/openl2tp.c

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ppp-2.4.5/pppd/plugins/pppol2tp/pppol2tp.c

/\* pppol2tp.c - pppd plugin to implement PPPoL2TP protocol

\* for Linux using kernel pppol2tp support.

\*

\* Requires kernel pppol2tp driver which is integrated into the kernel  
\* from 2.6.23 onwards. For earlier kernels, a version can be obtained



\* from the OpenL2TP project at  
\* <http://www.sourceforge.net/projects/openl2tp/>  
\*  
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## 1.103 i2c-tools 3.1

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```

```
<signature of Ty Coon>, 1 April 1989
```

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## 1.107 protobuf 3.6.1

## 1.108 curl 7.61.0

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=====

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## 1.110 coreutils 8.22-15.el7\_2.1

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Version 3, 29 June 2007

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## 1.111 ntp 4.2.8p12

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<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
 "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
  UTC</p>
<br clear="left">
</p>
<hr>
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<li><a href="mailto:%20mark\_andrews@isc.org">Mark Andrews <mark\_andrews@isc.org></a> Leitch atomic clock controller</li>

<li><a href="mailto:%20altmeier@atsoft.de">Bernd Altmeier <altmeier@atsoft.de></a> hopf Elektronik serial line and PCI-bus devices</li>

<li><a href="mailto:%20vbais@mailman1.intel.co">Viraj Bais <vbais@mailman1.intel.com></a> and <a href="mailto:%20kirkwood@striderfm.intel.com">Clayton Kirkwood <kirkwood@striderfm.intel.com></a> port to WindowsNT 3.5</li>

<li><a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a> GPSVME fixes</li>

<li><a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a> syslog to file option</li>

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<li><a href="mailto:%20vixie@vix.com">Paul A Vixie <vixie@vix.com></a> TrueTime GPS driver, generic TrueTime clock driver</li>  
<li><a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>  
</ol>  
<hr>  
</body>  
</html>

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26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snpt to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox



- GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
  34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
  35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
  36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
  37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
  38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
  39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
  40. [43]Tom Moore <tmooore@fievel.daytonoh.ncr.com> i386 svr4 port
  41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
  42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
  43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
  44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
  45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
  46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
  47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
  49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  50. [54]Michael Shields <shields@tembel.org> USNO clock driver
  51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
  53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
  57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
  58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

---

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63. mailto:%20Ulrich.Windl@rz.uni-regensburg.de

/\* \*- Mode: Text \*- \*/

```
copyright = {  
    date = "1992-2017";  
    owner = "The University of Delaware and Network Time Foundation";  
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";  
    type = ntp;  
};
```

```
long-opts;  
config-header = config.h;  
environrc;  
no-misuse-usage;  
version-proc = ntpOptionPrintVersion;
```

```
version      = `  
eval VERSION=\`sed -e 's/.*\.[/]' -e 's/\.*/' < ../sntp/m4/version.m4\  
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid  
echo $VERSION`;
```

```
version-value = "; /* Don't use -v as a shortcut for --version */
```

```
/*
```

```
* HMS: man pages already have this, and texi pages can use the  
* values in sntp/include/version.texi .
```

```
*/
```

```
// doc-sub = {  
//   sub-name = version;  
//   sub-text = 's/#VERSION#/<<version>>/g';  
// };
```

```
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```

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Ty Coon, President of Vice
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## 1.117 util-linux 2.24.2

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/\*

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## 1.118 open-ldap 2.4.46

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## 1.119 lua 5.3.3

## 1.120 Isof 4.87

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# 1.121 tcl 8.5.8

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Mathieu Desnoyers

June 2, 2011

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Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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```

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Ty Coon, President of Vice
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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
```



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\*  
\*  
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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Mathieu Desnoyers  
June 2, 2011

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.126 icu 53

### 1.126.1 Available under license :

```
## *-makefile-*  
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
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## Commands to generate dependency files  
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)  
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)  
  
## Flags for position independent code  
SHAREDLIBCFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  
SHAREDLIBCPPFLAGS = -DPIC  
  
## Additional flags when building libraries and with threads  
THREADSCPPFLAGS = -D_REENTRANT  
LIBCPPFLAGS =  
  
## Compiler switch to embed a runtime search path  
LD_RPATH=  
LD_RPATH_PRE= -Wl,-rpath,  
  
## Compiler switch to embed a library name  
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))  
  
## Shared library options  
LD_SOOPTIONS= -Wl,-Bsymbolic
```

```

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*\^1.o $@ : /g\>" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*\^1.o $@ : /g\>" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =

```

STATIC\_PREFIX =

## End BSD-specific setup

# 1.127 util-linux 2.32.1

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## 1.130 libtasn 4.13

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## 1.132 bind 9.9.5

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were

derived from the ones in the Monotone project, revision  
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp:  
These files were derived from the file\_handle, systembuf, pipe and pistream  
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk,  
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,  
except the first one, were first implemented in the Buildtool project.  
They were later adapted to be part of Boost.Process and, during that  
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->

<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '#10;'))"/>

<xsl:text>#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '#10;')"/>

<xsl:if test="translate(\$rest, '#9;#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>



```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    purpose with or without fee is hereby granted, provided that the above
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
  <xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->

```

## 1.133 libuser 0.60-7.el7\_1

## 1.133.1 Available under license :

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## 1.136 systemtap 2.8 10.el7

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# 1.137 libgpg-error 1.12

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## 1.138 dosfs-tools 2.11

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the

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```

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

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## 1.141 zlib 1.2.5

### 1.141.1 Available under license :

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

\*/

## 1.142 fontconfig 2.12.6

### 1.142.1 Available under license :

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## 1.143 cracklib 2.9.1

## 1.143.1 Available under license :

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively  
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly  
and see if he wants to relicense his code as LGPL... but at this point,  
it was enough to just get it consistent and documented as to what it was  
released under. This wasn't actually a license change, just a  
clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license  
>=20  
> On Monday 01 October 2007, Neulinger, Nathan wrote:  
>> I understand that, and you're welcome to bring it up with Alec  
> directly  
>> and see if he wants to relicense his code as LGPL... but at this  
> point,  
>> it was enough to just get it consistent and documented as to what  
> it was  
>> released under. This wasn't actually a license change, just a  
>> clarification of the licensing that was already in place.  
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> the original license (before moving to sourceforge -- aka, 2.7) was  
> not  
> GPL-2 ... it was a modified artistic license ... i didnt notice the  
> license  
> change until it was mentioned in the latest notes.  
>=20  
> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a



Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using the library under a later version of the  
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> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----  
From alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191GxtpR020623

for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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^L

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.144 kerberos 1.16

### 1.144.1 Available under license :

[ NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows. ]

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```
cmd/krb5/iprof/iprof.x
cmd/krb5/iprof/iprof_hdr.h
cmd/krb5/kadmin/server/iprofd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
```



lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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```
*/  
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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```
*/
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

```
<script type="text/javascript">
```

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT:    '.',
```

```
    VERSION:    '1.17',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true,
```

```
    SOURCELINK_SUFFIX: '.txt'
```

```
};
```

```
</script>
```

```

<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="author" title="About these documents" href="about.html" />
<link rel="index" title="Index" href="genindex.html" />
<link rel="search" title="Search" href="search.html" />
<link rel="copyright" title="Copyright" href="copyright.html" />
<link rel="next" title="Copyright" href="copyright.html" />
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
<div class="header-wrapper">
  <div class="header">

    <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

    <div class="rel">

      <a href="index.html" title="Full Table of Contents"
        accesskey="C">Contents</a> |
      <a href="mitK5features.html" title="MIT Kerberos features"
        accesskey="P">previous</a> |
      <a href="copyright.html" title="Copyright"
        accesskey="N">next</a> |
      <a href="genindex.html" title="General Index"
        accesskey="I">index</a> |
      <a href="search.html" title="Enter search criteria"
        accesskey="S">Search</a> |
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
    </div>
  </div>
</div>

<div class="content-wrapper">
  <div class="content">
    <div class="document">

      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body" role="main">

            <div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
kerberos-license-information" title="Permalink to this headline"></a></h1>
<div class="toctree-wrapper compound">
</div>

```

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```

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```
</div></blockquote>
```

---

```
<blockquote>
```

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<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">generic</span><span class="o"></span><span class="n">gssapi\_err\_generic</span><span class="o"></span><span class="n">et</span><span class="o"></span>

<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">

<span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">







```
class="n">mg glueP</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">.</span><span class="n">gssapi</span><span
class="o">.</span><span class="n">mech glue</span><span class="o">.</span><span
class="n">oid_ops</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">gssapi</span><span
class="o">.</span><span class="n">spnego</span><span class="o">.</span><span
class="n">gssapiP_spnego</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">.</span><span class="n">gssapi</span><span
class="o">.</span><span class="n">spnego</span><span class="o">.</span><span
class="n">spnego_mech</span><span class="o">.</span><span class="n">c</span>
</pre></div>
</div>
```

<p>and the initial implementation of incremental propagation, including the following new or changed files:</p>

```
<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">include</span><span
class="o">.</span><span class="n">iprop_hdr</span><span class="o">.</span><span class="n">h</span>
<span class="n">kadmin</span><span class="o">.</span><span class="n">server</span><span
class="o">.</span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">iprop</span><span class="o">.</span><span class="n">x</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_convert</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">.</span><span class="n">krb5</span><span
class="o">.</span><span class="n">error_tables</span><span class="o">.</span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">kprop</span><span class="o">.</span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span>
<span class="n">kprop</span><span class="o">.</span><span class="n">kproplog</span><span
class="o">.</span><span class="n">c</span>
</pre></div>
</div>
```

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<div class="sidebar">

```

<h2>On this page</h2>
<ul>
<li><a class="reference internal" href="#">MIT Kerberos License information</a></li>
</ul>

<br/>
<h2>Table of contents</h2>
<ul>
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
the source</a></li>
<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>

<br/>
<h4><a href="index.html">Full Table of Contents</a></h4>
<h4>Search</h4>
<form class="search" action="search.html" method="get">
  <input type="text" name="q" size="18" />
  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
</div>
<div class="clearer"></div>
</div>
</div>

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    </div>
    <div class="left">

  <a href="index.html" title="Full Table of Contents"
  >Contents</a> |
  <a href="mitK5features.html" title="MIT Kerberos features"

```

```
>previous</a> |
<a href="copyright.html" title="Copyright"
  >next</a> |
<a href="genindex.html" title="General Index"
  >index</a> |
<a href="search.html" title="Enter search criteria"
  >Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
</div>
</div>
</div>
```

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</body>
</html>
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```
.. _mitK5license:
```

```
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```

```
=====
```

```
.. toctree::
   :hidden:
```

```
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```

```
.. include:: notice.rst
```

```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
```

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```
*/
```



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/\*

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.. parsed-literal::

```
lib/gssapi/generic/gssapi_err_generic.et  
lib/gssapi/mechglue/g_accept_sec_context.c  
lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c  
lib/gssapi/mechglue/g_compare_name.c  
lib/gssapi/mechglue/g_context_time.c  
lib/gssapi/mechglue/g_delete_sec_context.c  
lib/gssapi/mechglue/g_dsp_name.c  
lib/gssapi/mechglue/g_dsp_status.c  
lib/gssapi/mechglue/g_dup_name.c  
lib/gssapi/mechglue/g_exp_sec_context.c  
lib/gssapi/mechglue/g_export_name.c  
lib/gssapi/mechglue/g_glue.c  
lib/gssapi/mechglue/g_imp_name.c  
lib/gssapi/mechglue/g_imp_sec_context.c  
lib/gssapi/mechglue/g_init_sec_context.c  
lib/gssapi/mechglue/g_initialize.c  
lib/gssapi/mechglue/g_inquire_context.c  
lib/gssapi/mechglue/g_inquire_cred.c  
lib/gssapi/mechglue/g_inquire_names.c  
lib/gssapi/mechglue/g_process_context.c  
lib/gssapi/mechglue/g_rel_buffer.c  
lib/gssapi/mechglue/g_rel_cred.c  
lib/gssapi/mechglue/g_rel_name.c  
lib/gssapi/mechglue/g_rel_oid_set.c  
lib/gssapi/mechglue/g_seal.c  
lib/gssapi/mechglue/g_sign.c  
lib/gssapi/mechglue/g_store_cred.c  
lib/gssapi/mechglue/g_unseal.c  
lib/gssapi/mechglue/g_userok.c  
lib/gssapi/mechglue/g_utils.c  
lib/gssapi/mechglue/g_verify.c  
lib/gssapi/mechglue/gssd_pname_to_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid_ops.c  
lib/gssapi/spnego/gssapiP_spnego.h  
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including

the following new or changed files:

.. parsed-literal::

```
include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in  
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including

the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/iproprd\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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  <title>Copyright &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT: '.',
      VERSION: '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
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  <link rel="author" title="About these documents" href="about.html" />
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  <link rel="next" title="How to build this documentation from the source" href="build_this.html" />
  <link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents"
          accesskey="C">Contents</a> |
        <a href="mitK5license.html" title="MIT Kerberos License information"
          accesskey="P">previous</a> |
        <a href="build_this.html" title="How to build this documentation from the source"
          accesskey="N">next</a> |
        <a href="genindex.html" title="General Index"
          accesskey="I">index</a> |

```

```
<a href="search.html" title="Enter search criteria"
  accesskey="S">Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
</div>
</div>
</div>
```

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<div class="content-wrapper">
<div class="content">
<div class="document">
```

```
<div class="documentwrapper">
<div class="bodywrapper">
<div class="body" role="main">
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<div class="section" id="copyright">
<h1>Copyright<a class="headerlink" href="#copyright" title="Permalink to this headline"></a></h1>
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information.</p>
</div>
```

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</div>
</div>
</div>
</div>
<div class="sidebar">
<h2>On this page</h2>
<ul>
<li><a class="reference internal" href="#">Copyright</a></li>
</ul>
```

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<br/>
<h2>Table of contents</h2>
<ul>
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
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<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
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<h4>Search</h4>
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  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
</div>
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</div>
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  <div class="footer" >
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    <div class="left">

      <a href="index.html" title="Full Table of Contents"
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  </div>
</div>
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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
    # DB2 licenses start with '/*-' and we don't want to change them.

```

```

    if line != " and line != '-':
        text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'^\*.*?\*/', '', line)
            line = line.strip()

            if not in_comment and '/*' in line:
                (line, sep, comment_part) = line.partition('/*')
                comment = [comment_part.strip()]
                comment_starts_at = ln
                in_comment = True
            elif in_comment and '*/' not in line:
                comment.append(line.lstrip('*').rstrip())
            elif in_comment:
                (comment_part, sep, line) = line.partition('*/')
                comment.append(comment_part.strip())
                is_license = check_comment(comment, fname, comment_starts_at,
                                           code_seen, nonlicense_seen)
                nonlicense_seen = nonlicense_seen or not is_license
                in_comment = False
            elif line.strip() != "":
                code_seen = True

        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./'):

```

```
fname = fname[2:]
f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)
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=====
```

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# 1.146 gawk 4.1.1

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```
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```

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```
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## 1.147 bison 2.7.12

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Version 3, 29 June 2007

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### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official

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## 1.148 ncurses 6.0

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-----  
Files: install-sh

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## 1.149 syslog-ng 3.16.1

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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```

```
libbz2.dll test program.
```

```
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
```

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```

```
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```

```
*/
```

# 1.152 lvm2 2.02.180

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\* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->

<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '#10;'))"/>

<xsl:text>#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '#10;')"/>

<xsl:if test="translate(\$rest, '#9;#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
  <xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
```

## 1.164 u-boot 1.3.0

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary

General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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version 2.1 of the License, or (at your option) any later version.
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
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That's all there is to it!  
@c The GNU Lesser General Public License.  
@center Version 2.1, February 1999
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```
@c This file is intended to be included within another document,  
@c hence no sectioning command or @node.
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@subheading Preamble

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complete object files to the recipients, so that they can relink them  
with the library after making changes to the library and recompiling  
it. And you must show them these terms so they know their rights.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form



under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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-->

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<!-- $Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

```

```

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```

```

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```

```

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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\* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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# 1.178 less 466

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Author: Keith Packard, MIT X Consortium

## 1.181 pcre 8.44

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
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# 1.182 libusb 1.0.22

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\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

\* @author Paulo Barreto <paulo.barreto@terra.com.br>

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PCRE LICENCE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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#### PCRE JUST-IN-TIME COMPILATION SUPPORT

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# 1.186 grub 2.16

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# 1.191 python 2.7.17

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## 1.193 zlib 1.2.11

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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# 1.197 cpio 2.12

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## 1.201 strace 4.10

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## 1.202 bash 4.4.23

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## 1.203 lasso 2.5.1

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## 1.205 libidn 1.33 1

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```

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## 1.206 iputils s20180629

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## 1.207 Ivm2 2.02.97

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## 1.208 rng-tools 6.5

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
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of bzip2 version 1.0.4. bzip2 source is distributed
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```

=====

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Julian Seward, Cambridge, UK.

[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

## 1.210 sqlite 3.0.0

### 1.210.1 Available under license :

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## 1.211 psmisc 22.21

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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```
/*  
* comm.h - command name length definition  
*  
* Copyright 1995 Werner Almesberger  
* Copyright 2012 Craig Small <csmall@enc.com.au>  
*  
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* This program is free software; you can redistribute it and/or modify  
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```

```
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* along with this program; if not, write to the Free Software
* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
*/
```

```
#ifndef COMM_H
#define COMM_H
```

```
#ifdef HAVE_CONFIG_H
#include <config.h>
#endif
```

```
/*
* COMM_LEN should be the same size as TASK_COMM_LEN in the Linux source
* at include/linux/sched.h
*/
#define COMM_LEN 16
```

```
#endif
```

## 1.212 diffutils 3.3-4.el7

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## 1.214 sblim-sfcb 1.3.3-040609

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## 1.215 screen 4.6.2

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## 1.216 jemalloc 5.2.1

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## 1.217 smartmontools 7.0

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<one line to give the library's name and a brief idea of what it does.>  
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```

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
/* -*- Mode: C; indent-tabs-mode:nil; c-basic-offset: 8 -*- */
```

```
/*
```

```
* This file is part of The Croco Library
```

```
*
```

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```

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* USA
```

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*
```

```
* Author: Dodji Seketeli
```

```
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```

```
*/
```

# 1.220 mesa 18.3.4

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```
libfreedreno_layout = static_library(  
    'freedreno_layout',
```

```
[  
  'fd6_layout.c',  
  'freedreno_layout.c',  
],  
include_directories : [inc_freedreno, inc_common],  
c_args : [c_vis_args, no_override_init_args],  
cpp_args : [cpp_vis_args],  
dependencies : idep_nir_headers,  
build_by_default : false,  
)
```

abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMNOPQRSTUVWXYZ

—  
0123456789

.  
+  
-  
/  
\*  
%  
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# 1.221 fcgi 2.4.0-25.e17

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## 1.222 libpcap 0.9.5

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# 1.223 expat 1.95.6

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# 1.224 plymouth 0.8.9

## 0.24.20140113.el7.centos

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### History of the software

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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#### Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Asynchronous socket services  
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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

The `:mod:`xmlrpc.client`` module contains the following notice::

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test\_epoll

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Select kqueue

-----

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([supercop/crypto\\_auth/siphash24/little](https://github.com/supercop/crypto_auth/siphash24/little))

djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/supercop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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-----

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zlib

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cfuhash

-----

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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\*\*\*\*\*

\*/

## 1.229 sudo 1.8.23

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to [sudo@sudo.ws](mailto:sudo@sudo.ws).

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E

Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
ek, Vtislav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael

Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt



Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo

Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs

Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer  
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```

```
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id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

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id AA27213; Thu, 25 May 95 11:18:25 CDT

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Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on  
>the FSF machines (naughty, I know), and I was wondering if you'd let  
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in

~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and  
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcedt@armory.com Wed May 10 10:21:11 1995

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id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)



From: John DuBois <spcedt@armory.com>  
Date: Tue, 9 May 1995 22:33:12 -0700  
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>  
"ksh scripts" (May 9, 1:36pm)  
X-Www: http://www.armory.com/~spcedt/  
X-Mailer: Mail User's Shell (7.2.5 10/14/92)  
To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@deephought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deephought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
```

-- End of excerpt from Chet Ramey

From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

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id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

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Version 3, 29 June 2007

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```
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```
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```
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## 1.234 dtc 1.4.7

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David Gibson <david@gibson.dropbear.id.au>  
(principal original author of dtc and libfdt)  
2 November 2007

## 1.235 raritan-ipmi 1 1

### 1.235.1 Available under license :

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## 1.236 icu 62

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```

```
#
```

```
# Project: http://code.google.com/p/lao-dictionary/
```

```
# Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
```

```
# License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt
```

```
# (copied below)
```

```
#
```

```
# This file is derived from the above dictionary, with slight
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```

```
# -----
```

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

```

```

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

```

# 1.237 iproute 3.10.0 87.el7

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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa\_ssl.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_add.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh\_gen.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa\_none.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa\_pk1.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_recpr.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha\_locl.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m\_sha1.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa\_key.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/lhash/lhash.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/stack/stack.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m\_dss1.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/rpc\_des.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cryptlib.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips\_dsatest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_lib.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/e\_os.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/buffer/buffer.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/ncbc\_enc.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-

2.0.16/crypto/rsa/rsa.h  
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2.0.16/crypto/des/set\_key.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/des/cfb\_enc.c  
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2.0.16/crypto/asn1/asn1.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/bn\_mul.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/hmac/hmac.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/des/des\_enc.c  
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2.0.16/crypto/des/ofb64ede.c  
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2.0.16/crypto/bn/bn\_shift.c  
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2.0.16/crypto/des/des\_ver.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
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2.0.16/crypto/bn/bn\_asm.c  
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2.0.16/crypto/bn/bn\_div.c  
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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
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2.0.16/crypto/bn/bn\_prime.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/rsa/rsa\_crpt.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/fips/utl/fips\_enc.c  
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2.0.16/crypto/evp/m\_dss.c  
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2.0.16/crypto/asn1/asn1\_mac.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/objects/objects.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/des/cfb64enc.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/dsa/dsa\_gen.c  
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2.0.16/crypto/bio/bio.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_word.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/cfb64ede.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh\_key.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/e\_des3.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/buffer/buf\_str.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/ecb3\_enc.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa\_ossl.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa\_gen.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/spr.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/fcrypt\_b.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/e\_null.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/evp.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha1dgst.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rand/rand.h

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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/test/fips\_algvs.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips\_ecdsa\_sign.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips\_dsa\_sign.c

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```

#!/usr/bin/env perl
#
# =====
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# =====
#
# SHA512 for C64x.
#
# November 2016
#
# Performance is ~19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve it and for own well-being
# zero it upon entry.

while (($output=shift) && ($output!~/\w[\w-]*\.\w+$/)) { }
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");      # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi,    $T2hi)=    ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5"); # circular/ring buffer

$code.=<<___.text

```

```

.if .ASSEMBLER_VERSION<7000000
.asg 0,__TI_EABI__
.endif
.if __TI_EABI__
.nocmp
.asg sha512_block_data_order,_sha512_block_data_order
.endif

.asg B3,RA
.asg A15,FP
.asg B15,SP

.if .BIG_ENDIAN
.asg $Khi,KHI
.asg $Klo,KLO
.else
.asg $Khi,KLO
.asg $Klo,KHI
.endif

.global _sha512_block_data_order
_sha512_block_data_order:
__sha512_block:
.asmfunc stack_usage(40+128)
MV $NUM,A0 ;reassign $NUM
|| MVK -128,B0
[!A0] BNOP RA ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40) ; save frame pointer
|| [A0] MV SP,FP
[A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
[A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
[A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR ; setup circular addressing
|| [A0] ADD B0,SP,SP ; alloca(128)
.if __TI_EABI__
[A0] AND B0,SP,SP ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL \${PCR_OFFSET(K512,__sha512_block)},$K512
[A0] MVKH \${PCR_OFFSET(K512,__sha512_block)},$K512
|| [A0] SUBAW SP,2,SP ; reserve two words above buffer
.else
[A0] AND B0,SP,SP ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL (K512-__sha512_block),$K512

```

```

[A0] MVKH (K512-__sha512_block),$K512
|| [A0] SUBAW SP,2,SP ; reserve two words above buffer
.endif
ADDAW SP,3,$Xilo
ADD SP,4*2,$Xihi ; ADDAW SP,2,$Xihi

```

```

|| MV $CTXA,$CTXB
LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo
LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo

```

```

LDNDW *$INP++,B11:B10 ; pre-fetch input
LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[0]
outerloop?:

```

```

MVK 15,B0 ; loop counters

```

```

|| MVK 64,B1
|| SUB A0,1,A0
MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo

```

```

loop0_15?:

```

```

.if .BIG_ENDIAN
MV B11,$T1hi
|| MV B10,$T1lo
.else
SWAP4 B10,$T1hi
|| SWAP4 B11,$T1lo
SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
.endif
STW $T1hi,*$Xihi++[2] ; original loop16_79?
|| STW $T1lo,*$Xilo++[2] ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
loop16_79?:
XOR $Fhi,$Ghi,$CHhi
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]
|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo ; h = g
|| SHRU $Ehi,18,$t0hi
|| SHL $Ehi,32-18,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo ; Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
|| ROTL $Flo,0,$Glo ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo ; f = e
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo

```

```

|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi
|| ROTL $Dlo,0,$Elo ; e = d
|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo ; d = c
|| SHRU $Ahi,28,$S0hi
|| SHL $Ahi,32-28,$S0lo
OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo ; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi
|| ROTL $Blo,0,$Clo ; c = b
|| SHRU $Alo,28,$t0lo
|| SHL $Alo,32-28,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $Alo,0,$Blo ; b = a
|| SHRU $Ahi,34-32,$t0lo
|| SHL $Ahi,64-34,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ; T2 = T1+Maj(a,b,c)
|| SHRU $Alo,34-32,$t0hi
|| SHL $Alo,64-34,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| SHRU $Ahi,39-32,$t0lo
|| SHL $Ahi,64-39,$t0hi
[B0] BNOP loop0_15?
|| [B0] LDNDW *$INP++,B11:B10 ; pre-fetch input
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $Alo,39-32,$t0hi
|| SHL $Alo,64-39,$t0lo

```

```

|!B0 LDW *${Xihi}[28],$T1hi
|!B0 LDW *${Xilo}[28],$T1lo ; X[i+14]
XOR $t0hi,$S0hi,$S0hi
| XOR $t0lo,$S0lo,$S0lo ; Sigma0(a)
| ADD $T1carry,$T1hi,$Ehi
| ROTL $T1lo,0,$Elo ; e = T1, "ghost" value
|!B1 BNOP break?
ADD $S0hi,$T2hi,$T2hi
| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
| [B1] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[i]
NOP ; avoid cross-path stall
ADD $T2carry,$T2hi,$Ahi
| MV $T2lo,$Alo ; a = T2
| [B0] SUB B0,1,B0
;===== branch to loop00_15? is taken here
[B1] LDW *${Xihi}[2],$T2hi
| [B1] LDW *${Xilo}[2],$T2lo ; X[i+1]
| [B1] SHRU $T1hi,19,$S1hi
| [B1] SHL $T1hi,32-19,$S1lo
[B1] SHRU $T1lo,19,$t0lo
| [B1] SHL $T1lo,32-19,$t0hi
;===== branch to break? is taken here
XOR $t0hi,$S1hi,$S1hi
| XOR $t0lo,$S1lo,$S1lo
| SHRU $T1hi,61-32,$t0lo
| SHL $T1hi,64-61,$t0hi
XOR $t0hi,$S1hi,$S1hi
| XOR $t0lo,$S1lo,$S1lo
| SHRU $T1lo,61-32,$t0hi
| SHL $T1lo,64-61,$t0lo
XOR $t0hi,$S1hi,$S1hi
| XOR $t0lo,$S1lo,$S1lo
| SHRU $T1hi,6,$t0hi
| SHL $T1hi,32-6,$t0lo
XOR $t0hi,$S1hi,$S1hi
| XOR $t0lo,$S1lo,$S1lo
| SHRU $T1lo,6,$t0lo
| LDW *${Xihi}[18],$T1hi
| LDW *${Xilo}[18],$T1lo ; X[i+9]
XOR $t0lo,$S1lo,$S1lo ; sigma1(Xi[i+14])

| LDW *${Xihi}[0],$CHhi
| LDW *${Xilo}[0],$CHlo ; X[i]
| SHRU $T2hi,1,$S0hi
| SHL $T2hi,32-1,$S0lo
SHRU $T2lo,1,$t0lo
| SHL $T2lo,32-1,$t0hi
XOR $t0hi,$S0hi,$S0hi

```

```

|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo ; T1 = X[i+9]+sigma1()
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
|| [B1] BNOP loop16_79?
XOR $t0lo,$S0lo,$S0lo ; sigma0(Xi[i+1])

```

```

ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
NOP ; avoid cross-path stall
ADD $T1carry,$T1hi,$T1hi

```

```

STW $T1hi,*$Xihi++[2] ; copied "top" bundle
|| STW $T1lo,*$Xilo++[2] ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
;===== branch to loop16_79? is taken here

```

```

break?:
ADD $Ahi,$Actxhi,$Ahi ; accumulate ctx
|| ADDU $Alo,$Actxlo,$Actxlo:$Alo
|| [A0] LDNDW *$INP++,B11:B10 ; pre-fetch input
|| [A0] ADDK -640,$K512 ; rewind pointer to K512
ADD $Bhi,$Bctxhi,$Bhi
|| ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[0]
ADD $Chi,$Cctxhi,$Chi
|| ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD $Actxlo,$Ahi,$Ahi
||[!A0] MV $CTXA,$CTXB
ADD $Dhi,$Dctxhi,$Dhi

```



```

|| ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
|| ADD $Bctxlo,$Bhi,$Bhi
||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ; save ctx
||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
  ADD $Ehi,$Ectxhi,$Ehi
|| ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
|| ADD $Cctxlo,$Chi,$Chi
|| [A0] BNOP outerloop?
||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]
  ADD $Fhi,$Fctxhi,$Fhi
|| ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
|| ADD $Dctxlo,$Dhi,$Dhi
||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
  ADD $Ghi,$Gctxhi,$Ghi
|| ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
|| ADD $Ectxlo,$Ehi,$Ehi
||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
  ADD $Hhi,$Hctxhi,$Hhi
|| ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
|| ADD $Fctxlo,$Fhi,$Fhi
||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
  ADD $Gctxlo,$Ghi,$Ghi
||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
  ADD $Hctxlo,$Hhi,$Hhi
||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
;===== branch to outerloop? is taken here

  STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
|| STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]
|| MVK -40,B0
  ADD FP,B0,SP ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
  LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
  LDDW *SP[4],B13:B12
|| BNOP RA
  LDW *++SP(40),FP ; restore frame pointer
  MVK 0,B0
  MVC B0,AMR ; clear AMR
  NOP 2 ; wait till FP is committed
.endasmfunc

```

```

.if __TI_EABI__
.sect ".text:sha_asm.const"
.else
.sect ".const:sha_asm"
.endif
.align 128
K512:
.uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
.uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
.uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
.uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
.uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
.uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
.uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
.uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
.uword 0x0fc19dc6,0x8b8cd5b5, 0x240ca1cc,0x77ac9c65
.uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
.uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
.uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
.uword 0xb00327c8,0x98fb213f, 0xbf597fc7,0xbeef0ee4
.uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
.uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70
.uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
.uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
.uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
.uword 0x81c2c92e,0x47edaae6, 0x92722c85,0x1482353b
.uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
.uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
.uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
.uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bbd1b8
.uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
.uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
.uword 0x391c0cb3,0xc5c95a63, 0x4ed8aa4a,0xe3418acb
.uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
.uword 0x748f82ee,0x5defb2fc, 0x78a5636f,0x43172f60
.uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
.uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
.uword 0xbef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
.uword 0xca273ece,0xea26619c, 0xd186b8c7,0x21c0c207
.uword 0xeadada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
.uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493
.uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
.uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x, CRYPTOGRAMS by <appro\@openssl.org>"

```

.align 4

—

```
print $code;
close STDOUT;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-c64x.pl
```

No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/env perl
```

```
#
```

```
# =====
```

```
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
```

```
# =====
```

```
#
```

```
# This module implements support for AES instructions as per PowerISA
# specification version 2.07, first implemented by POWER8 processor.
# The module is endian-agnostic in sense that it supports both big-
# and little-endian cases. Data alignment in parallelizable modes is
# handled with VSX loads and stores, which implies MSR.VSX flag being
# set. It should also be noted that ISA specification doesn't prohibit
# alignment exceptions for these instructions on page boundaries.
# Initially alignment was handled in pure AltiVec/VMX way [when data
# is aligned programmatically, which in turn guarantees exception-
# free execution], but it turned to hamper performance when vcipher
# instructions are interleaved. It's reckoned that eventual
# misalignment penalties at page boundaries are in average lower
# than additional overhead in pure AltiVec approach.
```

```
#
```

```
# May 2016
```

```
#
```

```
# Add XTS subroutine, 9x on little- and 12x improvement on big-endian
# systems were measured.
```

```
#
```

```
#####
```

```
# Current large-block performance in cycles per byte processed with
# 128-bit key (less is better).
```

```
#
```

```
# CBC en-/decrypt CTR XTS
```

```
# POWER8[le] 3.96/0.72 0.74 1.1
```

```
# POWER8[be] 3.75/0.65 0.66 1.0
```

```
$flavour = shift;
```

```

if ($flavour =~ /64/) {
$SIZE_T =8;
$LRSAVE =2*$SIZE_T;
$STU ="stdu";
$POP ="ld";
$PUSH ="std";
$UCMP ="cmpld";
$SHL ="sldi";
} elsif ($flavour =~ /32/) {
$SIZE_T =4;
$LRSAVE =$SIZE_T;
$STU ="stwu";
$POP ="lwz";
$PUSH ="stw";
$UCMP ="cmplw";
$SHL ="slwi";
} else { die "nonsense $flavour"; }

$LITTLE_ENDIAN = ($flavour =~ /le$/) ? $SIZE_T : 0;

$0 =~ m/(.*[\\])[^\\]+$/; $dir=$1;
( $xlate="{dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="{dir}../../perlasmppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=8*$SIZE_T;
$prefix="aes_p8";

$sp="r1";
$vrsave="r12";

#####
{{{ # Key setup procedures    #
my ($inp,$bits,$out,$ptr,$cnt,$rounds)=map("r$_",(3..8));
my ($zero,$in0,$in1,$key,$rcon,$mask,$tmp)=map("v$_",(0..6));
my ($stage,$outperm,$outmask,$outhead,$outtail)=map("v$_",(7..11));

$code.=<<___.machine "any"

.text

.align 7
rcon:
.long 0x01000000, 0x01000000, 0x01000000, 0x01000000 ?rev

```

```
.long 0x1b000000, 0x1b000000, 0x1b000000, 0x1b000000 ?rev
.long 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c ?rev
.long 0,0,0,0 ?asis
Lconsts:
mflr r0
bcl 20,31,\,$+4
mflr $ptr #vvvvv "distance between . and rcon
addi $ptr,$ptr,-0x48
mtdl r0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.asciz "AES for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"
```

```
.globl .${prefix}_set_encrypt_key
```

```
.align 5
```

```
.${prefix}_set_encrypt_key:
```

```
Lset_encrypt_key:
```

```
mflr r11
```

```
$PUSH r11,$LRSAVE($sp)
```

```
li $ptr,-1
```

```
${UCMP}i $inp,0
```

```
beq- Lenc_key_abort # if ($inp==0) return -1;
```

```
${UCMP}i $out,0
```

```
beq- Lenc_key_abort # if ($out==0) return -1;
```

```
li $ptr,-2
```

```
cmpwi $bits,128
```

```
blt- Lenc_key_abort
```

```
cmpwi $bits,256
```

```
bgt- Lenc_key_abort
```

```
andi. r0,$bits,0x3f
```

```
bne- Lenc_key_abort
```

```
lis r0,0xffff0
```

```
mfspr $rsave,256
```

```
mtspr 256,r0
```

```
bl Lconsts
```

```
mtdl r11
```

```
neg r9,$inp
```

```
lvx $in0,0,$inp
```

```
addi $inp,$inp,15 # 15 is not typo
```

```
lvsr $key,0,r9 # borrow $key
```

```
li r8,0x20
```

```
cmpwi $bits,192
```

```
lvx $in1,0,$inp
```

```

le?vspltisb $mask,0x0f # borrow $mask
lvx $rcon,0,$ptr
le?vxor $key,$key,$mask # adjust for byte swap
lvx $mask,r8,$ptr
addi $ptr,$ptr,0x10
vperm $in0,$in0,$in1,$key # align [and byte swap in LE]
li $cnt,8
vxor $zero,$zero,$zero
mtctr $cnt

```

```

?lvsr $outperm,0,$out
vspltisb $outmask,-1
lvx $outhead,0,$out
?vperm $outmask,$zero,$outmask,$outperm

```

```

blt Loop128
addi $inp,$inp,8
beq L192
addi $inp,$inp,8
b L256

```

```

.align 4
Loop128:
vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

```

```

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key
bdnz Loop128

```

```

lvx $rcon,0,$ptr # last two round keys

```

```

vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail

```

```

vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key

vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vxor $in0,$in0,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out

addi $inp,$out,15 # 15 is not typo
addi $out,$out,0x50

li $rounds,10
b Ldone

.align 4
L192:
lvx $tmp,0,$inp
li $scent,4
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out
addi $out,$out,16
vperm $in1,$in1,$tmp,$key # align [and byte swap in LE]

```

```
vspltisb $key,8 # borrow $key
mtctr $cnt
vsuubm $mask,$mask,$key # adjust the mask
```

Loop192:

```
vperm $key,$in1,$in1,$mask # roate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vcipherlast $key,$key,$rcon
```

```
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
```

```
vsldoi $stage,$zero,$in1,8
vspltw $tmp,$in0,3
vxor $tmp,$tmp,$in1
vsldoi $in1,$zero,$in1,12 # >>32
vadduwm $rcon,$rcon,$rcon
vxor $in1,$in1,$tmp
vxor $in0,$in0,$key
vxor $in1,$in1,$key
vsldoi $stage,$stage,$in0,8
```

```
vperm $key,$in1,$in1,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$stage,$stage,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16
```

```
vsldoi $stage,$in0,$in1,8
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vperm $outtail,$stage,$stage,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
stvx $stage,0,$out
addi $out,$out,16
```

```
vspltw $tmp,$in0,3
vxor $tmp,$tmp,$in1
```



```

vsldoi $in1,$zero,$in1,12 # >>32
vadduwm $rcon,$rcon,$rcon
vxor $in1,$in1,$tmp
vxor $in0,$in0,$key
vxor $in1,$in1,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out
addi $inp,$out,15 # 15 is not typo
addi $out,$out,16
bdnz Loop192

li $rounds,12
addi $out,$out,0x20
b Ldone

.align 4
L256:
lvx $tmp,0,$inp
li $cnt,7
li $rounds,14
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out
addi $out,$out,16
vperm $in1,$in1,$tmp,$key # align [and byte swap in LE]
mtctr $cnt

Loop256:
vperm $key,$in1,$in1,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in1,$in1,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key
vperm $outtail,$in0,$in0,$outperm # rotate

```

```

vsel $stage,$southead,$souttail,$soutmask
vmr $southead,$souttail
stvx $stage,0,$sout
addi $inp,$sout,15 # 15 is not typo
addi $out,$sout,16
bdz Ldone

vspltw $key,$in0,3 # just splat
vsldoi $tmp,$zero,$in1,12 # >>32
vsbox $key,$key

vxor $in1,$in1,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in1,$in1,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in1,$in1,$tmp

vxor $in1,$in1,$key
b Loop256

.align 4
Ldone:
lvx $in1,0,$inp # redundant in aligned case
vsel $in1,$southead,$in1,$soutmask
stvx $in1,0,$inp
li $ptr,0
mtspr 256,$vrsave
stw $rounds,0($sout)

Lenc_key_abort:
mr r3,$ptr
blr
.long 0
.byte 0,12,0x14,1,0,0,3,0
.long 0
.size .${prefix}_set_encrypt_key,.-.${prefix}_set_encrypt_key

.globl .${prefix}_set_decrypt_key
.align 5
.${prefix}_set_decrypt_key:
$STU $sp,-$FRAME($sp)
mflr r10
$PUSH r10,$FRAME+$LRSAVE($sp)
bl Lset_encrypt_key
mflr r10

cmpwi r3,0
bne- Ldec_key_abort

```

```

slwi $cnt,$rounds,4
subi $inp,$out,240 # first round key
srwi $rounds,$rounds,1
add $out,$inp,$cnt # last round key
mtctr $rounds

```

Ldeckey:

```

lwz r0, 0($inp)
lwz r6, 4($inp)
lwz r7, 8($inp)
lwz r8, 12($inp)
addi $inp,$inp,16
lwz r9, 0($out)
lwz r10,4($out)
lwz r11,8($out)
lwz r12,12($out)
stw r0, 0($out)
stw r6, 4($out)
stw r7, 8($out)
stw r8, 12($out)
subi $out,$out,16
stw r9, -16($inp)
stw r10,-12($inp)
stw r11,-8($inp)
stw r12,-4($inp)
bdnz Ldeckey

```

```

xor r3,r3,r3 # return value

```

Ldec\_key\_abort:

```

addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,0,3,0
.long 0
.size ${prefix}_set_decrypt_key,-.${prefix}_set_decrypt_key

```

```

___
}}

```

```

#####

```

```

{{{ # Single block en- and decrypt procedures #

```

```

sub gen_block () {
my $dir = shift;
my $n = $dir eq "de" ? "n" : "";
my ($inp,$out,$key,$rounds,$idx)=map("r$_",(3..7));

```

```

$code.=<<___;

```

```

.globl ${prefix}_${dir}crypt

```

```

.align 5

```

```

.${prefix}_${dir}crypt:
lwz $rounds,240($key)
lis r0,0xfc00
mfspr $vrsave,256
li $idx,15 # 15 is not typo
mtspr 256,r0

lvx v0,0,$inp
neg r11,$out
lvx v1,$idx,$inp
lvsl v2,0,$inp # inpperm
le?vspltisb v4,0x0f
?lvsl v3,0,r11 # outperm
le?v xor v2,v2,v4
li $idx,16
vperm v0,v0,v1,v2 # align [and byte swap in LE]
lvx v1,0,$key
?lvsl v5,0,$key # keyperm
srwi $rounds,$rounds,1
lvx v2,$idx,$key
addi $idx,$idx,16
subi $rounds,$rounds,1
?vperm v1,v1,v2,v5 # align round key

vxor v0,v0,v1
lvx v1,$idx,$key
addi $idx,$idx,16
mtctr $rounds

Loop_${dir}c:
?vperm v2,v2,v1,v5
v${n}cipher v0,v0,v2
lvx v2,$idx,$key
addi $idx,$idx,16
?vperm v1,v1,v2,v5
v${n}cipher v0,v0,v1
lvx v1,$idx,$key
addi $idx,$idx,16
bdnz Loop_${dir}c

?vperm v2,v2,v1,v5
v${n}cipher v0,v0,v2
lvx v2,$idx,$key
?vperm v1,v1,v2,v5
v${n}cipherlast v0,v0,v1

vspltisb v2,-1
vxor v1,v1,v1

```

```

li $idx,15 # 15 is not typo
?vperm v2,v1,v2,v3 # outmask
le?vxor v3,v3,v4
lvx v1,0,$out # outhead
vperm v0,v0,v0,v3 # rotate [and byte swap in LE]
vsel v1,v1,v0,v2
lvx v4,$idx,$out
stvx v1,0,$out
vsel v0,v0,v4,v2
stvx v0,$idx,$out

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,3,0
.long 0
.size ${prefix}_${dir}crypt,-.${prefix}_${dir}crypt
___
}
&gen_block("en");
&gen_block("de");
}}}
#####
{{{ # CBC en- and decrypt procedures #
my ($inp,$out,$len,$key,$ivp,$enc,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)= map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm)=
    map("v$_",(4..10));
$code.=<<___;
.globl ${prefix}_cbc_encrypt
.align 5
${prefix}_cbc_encrypt:
${UCMP}i $len,16
bltlr-

cmpwi $enc,0 # test direction
lis r0,0xffe0
mfspr $vrsave,256
mtspr 256,r0

li $idx,15
vxor $rndkey0,$rndkey0,$rndkey0
le?vspltisb $tmp,0x0f

lvx $ivec,0,$ivp # load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $inptail,$idx,$ivp
le?vxor $inpperm,$inpperm,$tmp

```

```

vperm $ivec,$ivec,$inptail,$inpperm

neg r11,$inp
?lvs1 $keyperm,0,$key # prepare for unaligned key
lwz $rounds,240($key)

lvsr $inpperm,0,r11 # prepare for unaligned load
lvx $sinptail,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp

?lvsr $outperm,0,$out # prepare for unaligned store
vspltisb $outmask,-1
lvx $outhead,0,$out
?vperm $outmask,$rndkey0,$outmask,$outperm
le?vxor $outperm,$outperm,$tmp

srwi $rounds,$rounds,1
li $idx,16
subi $rounds,$rounds,1
beq Lcbc_dec

Lcbc_enc:
vmr $inout,$sinptail
lvx $sinptail,0,$inp
addi $inp,$inp,16
mtctr $rounds
subi $len,$len,16 # len-=16

lvx $rndkey0,0,$key
vperm $inout,$inout,$sinptail,$inpperm
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
vxor $inout,$inout,$ivec

Loop_cbc_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16

```

```

bdnz Loop_cbc_enc

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $ivec,$inout,$rndkey0
${UCMP}i $len,16

vperm $tmp,$ivec,$ivec,$outperm
vsel $inout,$southead,$tmp,$outmask
vmr $southead,$tmp
stvx $inout,0,$out
addi $out,$out,16
bge Lcbc_enc

b Lcbc_done

.align 4
Lcbc_dec:
${UCMP}i $len,128
bge _aesp8_cbc_decrypt8x
vmr $tmp,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
mtctr $rounds
subi $len,$len,16 # len-=16

lvx $rndkey0,0,$key
vperm $tmp,$tmp,$inptail,$inpperm
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$tmp,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16

Loop_cbc_dec:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
bdnz Loop_cbc_dec

```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipherlast $inout,$inout,$rndkey0
${UCMP}i $len,16

```

```

vxor $inout,$inout,$ivec
vmr $ivec,$tmp
vperm $tmp,$inout,$inout,$outperm
vsel $inout,$outhead,$tmp,$outmask
vmr $outhead,$tmp
stvx $inout,0,$out
addi $out,$out,16
bge Lcbc_dec

```

Lcbc\_done:

```

addi $out,$out,-1
lvx $inout,0,$out # redundant in aligned case
vsel $inout,$outhead,$inout,$outmask
stvx $inout,0,$out

```

```

neg $enc,$ivp # write [unaligned] iv
li $idx,15 # 15 is not typo
vxor $rndkey0,$rndkey0,$rndkey0
vspltisb $outmask,-1
le?vspltisb $tmp,0x0f
?lvs1 $outperm,0,$enc
?vperm $outmask,$rndkey0,$outmask,$outperm
le?vxor $outperm,$outperm,$tmp
lvx $outhead,0,$ivp
vperm $ivec,$ivec,$ivec,$outperm
vsel $inout,$outhead,$ivec,$outmask
lvx $inptail,$idx,$ivp
stvx $inout,0,$ivp
vsel $inout,$ivec,$inptail,$outmask
stvx $inout,$idx,$ivp

```

```

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,6,0
.long 0

```

#####

```

{{ # Optimized CBC decrypt procedure #

```



```

my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
  $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10..13));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(14..21));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
  # v26-v31 last 6 round keys
my ($tmp,$keyperm)=$(in3,in4); # aliases with "caller", redundant assignment

```

```

$code.=<<___.
.align 5
_aesp8_cbc_decrypt8x:
$STU $sp,~($FRAME+21*16+6*$SIZE_T)`($sp)
li r10,`$FRAME+8*16+15`
li r11,`$FRAME+8*16+31`
stvx v20,r10,$sp # ABI says so
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32
stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp
addi r11,r11,32
stvx v28,r10,$sp
addi r10,r10,32
stvx v29,r11,$sp
addi r11,r11,32
stvx v30,r10,$sp
stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50

```

```

$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

```

```

subi $rounds,$rounds,3 # -4 in total
subi $len,$len,128 # bias

```

```

lvx $rndkey0,$x00,$key # load key schedule
lvx v30,$x10,$key
addi $key,$key,0x20
lvx v31,$x00,$key
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

```

Load\_cbc\_dec\_key:

```

?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key
addi $key,$key,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_cbc_dec_key

```

```

lvx v26,$x10,$key
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key
stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key
stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key
?vperm v29,v29,v30,$keyperm
lvx $out0,$x70,$key # borrow $out0
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$out0,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

```

```

#lvx $inptail,0,$inp # "caller" already did this
#addi $inp,$inp,15 # 15 is not typo
subi $inp,$inp,15 # undo "caller"

le?li $idx,8
lvx_u $in0,$x00,$inp # load first 8 "words"
le?lvsl $inpperm,0,$idx
le?vspltisb $tmp,0x0f
lvx_u $in1,$x10,$inp
le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
lvx_u $in2,$x20,$inp
le?vperm $in0,$in0,$in0,$inpperm
lvx_u $in3,$x30,$inp
le?vperm $in1,$in1,$in1,$inpperm
lvx_u $in4,$x40,$inp
le?vperm $in2,$in2,$in2,$inpperm
vxor $out0,$in0,$rndkey0
lvx_u $in5,$x50,$inp
le?vperm $in3,$in3,$in3,$inpperm
vxor $out1,$in1,$rndkey0
lvx_u $in6,$x60,$inp
le?vperm $in4,$in4,$in4,$inpperm
vxor $out2,$in2,$rndkey0
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80
le?vperm $in5,$in5,$in5,$inpperm
vxor $out3,$in3,$rndkey0
le?vperm $in6,$in6,$in6,$inpperm
vxor $out4,$in4,$rndkey0
le?vperm $in7,$in7,$in7,$inpperm
vxor $out5,$in5,$rndkey0
vxor $out6,$in6,$rndkey0
vxor $out7,$in7,$rndkey0

mtctr $rounds
b Loop_cbc_dec8x
.align 5
Loop_cbc_dec8x:
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24
lvx v24,$x20,$key_ # round[3]

```

```
addi $key_,$key_,0x20
```

```
vncipher $out0,$out0,v25  
vncipher $out1,$out1,v25  
vncipher $out2,$out2,v25  
vncipher $out3,$out3,v25  
vncipher $out4,$out4,v25  
vncipher $out5,$out5,v25  
vncipher $out6,$out6,v25  
vncipher $out7,$out7,v25  
lvx v25,$x10,$key_ # round[4]  
bdnz Loop_cbc_dec8x
```

```
subic $len,$len,128 # $len-=128  
vncipher $out0,$out0,v24  
vncipher $out1,$out1,v24  
vncipher $out2,$out2,v24  
vncipher $out3,$out3,v24  
vncipher $out4,$out4,v24  
vncipher $out5,$out5,v24  
vncipher $out6,$out6,v24  
vncipher $out7,$out7,v24
```

```
subfe. r0,r0,r0 # borrow?-1:0  
vncipher $out0,$out0,v25  
vncipher $out1,$out1,v25  
vncipher $out2,$out2,v25  
vncipher $out3,$out3,v25  
vncipher $out4,$out4,v25  
vncipher $out5,$out5,v25  
vncipher $out6,$out6,v25  
vncipher $out7,$out7,v25
```

```
and r0,r0,$len  
vncipher $out0,$out0,v26  
vncipher $out1,$out1,v26  
vncipher $out2,$out2,v26  
vncipher $out3,$out3,v26  
vncipher $out4,$out4,v26  
vncipher $out5,$out5,v26  
vncipher $out6,$out6,v26  
vncipher $out7,$out7,v26
```

```
add $inp,$inp,r0 # $inp is adjusted in such  
# way that at exit from the  
# loop inX-in7 are loaded  
# with last "words"  
vncipher $out0,$out0,v27
```

```

vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
vncipher $out7,$out7,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28
lvx v24,$x00,$key_ # re-pre-load round[1]

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29
lvx v25,$x10,$key_ # re-pre-load round[2]

vncipher $out0,$out0,v30
vxor $ivec,$ivec,v31 # xor with last round key
vncipher $out1,$out1,v30
vxor $in0,$in0,v31
vncipher $out2,$out2,v30
vxor $in1,$in1,v31
vncipher $out3,$out3,v30
vxor $in2,$in2,v31
vncipher $out4,$out4,v30
vxor $in3,$in3,v31
vncipher $out5,$out5,v30
vxor $in4,$in4,v31
vncipher $out6,$out6,v30
vxor $in5,$in5,v31
vncipher $out7,$out7,v30
vxor $in6,$in6,v31

vncipherlast $out0,$out0,$ivec
vncipherlast $out1,$out1,$in0

```

```

lvx_u $in0,$x00,$inp # load next input block
vncipherlast $out2,$out2,$in1
lvx_u $in1,$x10,$inp
vncipherlast $out3,$out3,$in2
le?vperm $in0,$in0,$in0,$inpperm
lvx_u $in2,$x20,$inp
vncipherlast $out4,$out4,$in3
le?vperm $in1,$in1,$in1,$inpperm
lvx_u $in3,$x30,$inp
vncipherlast $out5,$out5,$in4
le?vperm $in2,$in2,$in2,$inpperm
lvx_u $in4,$x40,$inp
vncipherlast $out6,$out6,$in5
le?vperm $in3,$in3,$in3,$inpperm
lvx_u $in5,$x50,$inp
vncipherlast $out7,$out7,$in6
le?vperm $in4,$in4,$in4,$inpperm
lvx_u $in6,$x60,$inp
vmr $ivec,$in7
le?vperm $in5,$in5,$in5,$inpperm
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80

```

```

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $in6,$in6,$in6,$inpperm
vxor $out0,$in0,$rndkey0
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $in7,$in7,$in7,$inpperm
vxor $out1,$in1,$rndkey0
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
vxor $out2,$in2,$rndkey0
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
vxor $out3,$in3,$rndkey0
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
vxor $out4,$in4,$rndkey0
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
vxor $out5,$in5,$rndkey0
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x60,$out
vxor $out6,$in6,$rndkey0
stvx_u $out7,$x70,$out

```

```

addi $out,$out,0x80
vxor $out7,$in7,$rndkey0

mtctr $rounds
beq Loop_cbc_dec8x # did $len-=128 borrow?

addic $len,$len,128
beq Lcbc_dec8x_done
nop
nop

Loop_cbc_dec8x_tail: # up to 7 "words" tail...
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_cbc_dec8x_tail

vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24

vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25

```

```
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26
vncipher $out6,$out6,v26
vncipher $out7,$out7,v26
```

```
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
vncipher $out7,$out7,v27
```

```
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28
```

```
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29
```

```
vncipher $out1,$out1,v30
vxor $ivec,$ivec,v31 # last round key
vncipher $out2,$out2,v30
vxor $in1,$in1,v31
vncipher $out3,$out3,v30
vxor $in2,$in2,v31
vncipher $out4,$out4,v30
vxor $in3,$in3,v31
vncipher $out5,$out5,v30
vxor $in4,$in4,v31
vncipher $out6,$out6,v30
vxor $in5,$in5,v31
vncipher $out7,$out7,v30
vxor $in6,$in6,v31
```

```
cmplwi $len,32 # switch($len)
```



```

blt Lcbc_dec8x_one
nop
beq Lcbc_dec8x_two
cmplwi $len,64
blt Lcbc_dec8x_three
nop
beq Lcbc_dec8x_four
cmplwi $len,96
blt Lcbc_dec8x_five
nop
beq Lcbc_dec8x_six

```

Lcbc\_dec8x\_seven:

```

vncipherlast $out1,$out1,$ivec
vncipherlast $out2,$out2,$in1
vncipherlast $out3,$out3,$in2
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

```

```

le?vperm $out1,$out1,$out1,$inpperm
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x00,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x10,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x20,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x30,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x40,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x50,$out
stvx_u $out7,$x60,$out
addi $out,$out,0x70
b Lcbc_dec8x_done

```

.align 5

Lcbc\_dec8x\_six:

```

vncipherlast $out2,$out2,$ivec
vncipherlast $out3,$out3,$in2
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

```

```

le?vperm $out2,$out2,$out2,$inpperm
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x00,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x10,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x20,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x30,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x40,$out
stvx_u $out7,$x50,$out
addi $out,$out,0x60
b Lcbc_dec8x_done

```

.align 5

Lcbc\_dec8x\_five:

```

vncipherlast $out3,$out3,$ivec
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

```

```

le?vperm $out3,$out3,$out3,$inpperm
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x00,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x10,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x20,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x30,$out
stvx_u $out7,$x40,$out
addi $out,$out,0x50
b Lcbc_dec8x_done

```

.align 5

Lcbc\_dec8x\_four:

```

vncipherlast $out4,$out4,$ivec
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

```

```

le?vperm $out4,$out4,$out4,$inpperm
le?vperm $out5,$out5,$out5,$inpperm

```

```
stvx_u $out4,$x00,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x10,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x20,$out
stvx_u $out7,$x30,$out
addi $out,$out,0x40
b Lcbc_dec8x_done
```

```
.align 5
Lcbc_dec8x_three:
vncipherlast $out5,$out5,$ivec
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7
```

```
le?vperm $out5,$out5,$out5,$inpperm
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x00,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x10,$out
stvx_u $out7,$x20,$out
addi $out,$out,0x30
b Lcbc_dec8x_done
```

```
.align 5
Lcbc_dec8x_two:
vncipherlast $out6,$out6,$ivec
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7
```

```
le?vperm $out6,$out6,$out6,$inpperm
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x00,$out
stvx_u $out7,$x10,$out
addi $out,$out,0x20
b Lcbc_dec8x_done
```

```
.align 5
Lcbc_dec8x_one:
vncipherlast $out7,$out7,$ivec
vmr $ivec,$in7
```

```
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out7,0,$out
addi $out,$out,0x10
```

```
Lcbc_dec8x_done:
```

```

le?vperm $ivec,$ivec,$ivec,$inpperm
stvx_u $ivec,0,$ivp # write [unaligned] iv

li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $inpperm,r10,$sp # wipe copies of round keys
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32

mvspr 256,$vrsave
lvx v20,r10,$sp # ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)

```

```

$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_cbc_encrypt,-.${prefix}_cbc_encrypt
—
}} }}

#####
{{{ # CTR procedure[s] #
my ($inp,$out,$len,$key,$ivp,$x10,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)= map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm,$one)=
    map("v$_",(4..11));
my $dat=$tmp;

$code.=<<<___.;
.globl ${prefix}_ctr32_encrypt_blocks
.align 5
.${prefix}_ctr32_encrypt_blocks:
${UCMP}i $len,1
bltlr-

lis r0,0xffff0
mfspr $vrsave,256
mtspr 256,r0

li $idx,15
vxor $rndkey0,$rndkey0,$rndkey0
le?vspltisb $tmp,0x0f

lvx $ivec,0,$ivp # load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $inptail,$idx,$ivp
vspltisb $one,1
le?vxor $inpperm,$inpperm,$tmp
vperm $ivec,$ivec,$inptail,$inpperm
vsldoi $one,$rndkey0,$one,1

neg r11,$inp
?lvsl $keyperm,0,$key # prepare for unaligned key
lwz $rounds,240($key)

lvsr $inpperm,0,r11 # prepare for unaligned load

```

```

lvx $inptail,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp

srwi $rounds,$rounds,1
li $idx,16
subi $rounds,$rounds,1

${UCMP}i $len,8
bge _aesp8_ctr32_encrypt8x

?lvsr $outperm,0,$out # prepare for unaligned store
vspltisb $outmask,-1
lvx $outhead,0,$out
?vperm $outmask,$rndkey0,$outmask,$outperm
le?vxor $outperm,$outperm,$tmp

lvx $rndkey0,0,$key
mtctr $rounds
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$ivec,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
b Loop_ctr32_enc

.align 5
Loop_ctr32_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
bdnz Loop_ctr32_enc

vadduwm $ivec,$ivec,$one
vmr $dat,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
subic. $len,$len,1 # blocks--

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key

```

```

vperm $dat,$dat,$inptail,$inpperm
li $idx,16
?vperm $rndkey1,$rndkey0,$rndkey1,$keyperm
lvx $rndkey0,0,$key
vxor $dat,$dat,$rndkey1 # last round key
vcipherlast $inout,$inout,$dat

lvx $rndkey1,$idx,$key
addi $idx,$idx,16
vperm $inout,$inout,$inout,$outperm
vsel $dat,$southead,$inout,$outmask
mtctr $rounds
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vmr $southead,$inout
vxor $inout,$ivec,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
stvx $dat,0,$out
addi $out,$out,16
bne Loop_ctr32_enc

addi $out,$out,-1
lvx $inout,0,$out # redundant in aligned case
vsel $inout,$southead,$inout,$outmask
stvx $inout,0,$out

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,6,0
.long 0
___
#####
{{ # Optimized CTR procedure #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
  $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10,12..14));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(15..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
  # v26-v31 last 6 round keys
my ($tmp,$keyperm)=$(in3,$in4); # aliases with "caller", redundant assignment
my ($two,$three,$four)=$(southead,$outperm,$outmask);

$code.=<<___;
.align 5
_esp8_ctr32_encrypt8x:
$STU $sp,-`($FRAME+21*16+6*$$SIZE_T)`($sp)

```

```

li r10,`$FRAME+8*16+15`
li r11,`$FRAME+8*16+31`
stvx v20,r10,$sp # ABI says so
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32
stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp
addi r11,r11,32
stvx v28,r10,$sp
addi r10,r10,32
stvx v29,r11,$sp
addi r11,r11,32
stvx v30,r10,$sp
stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

subi $rounds,$rounds,3 # -4 in total

lvx $rndkey0,$x00,$key # load key schedule
lvx v30,$x10,$key
addi $key,$key,0x20
lvx v31,$x00,$key
?vperm $rndkey0,$rndkey0,v30,$keyperm

```



```
addi $key_,$sp,$FRAME+15
```

```
mtctr $rounds
```

```
Load_ctr32_enc_key:
```

```
?vperm v24,v30,v31,$keyperm
```

```
lvx v30,$x10,$key
```

```
addi $key,$key,0x20
```

```
stvx v24,$x00,$key_ # off-load round[1]
```

```
?vperm v25,v31,v30,$keyperm
```

```
lvx v31,$x00,$key
```

```
stvx v25,$x10,$key_ # off-load round[2]
```

```
addi $key_,$key_,0x20
```

```
bdnz Load_ctr32_enc_key
```

```
lvx v26,$x10,$key
```

```
?vperm v24,v30,v31,$keyperm
```

```
lvx v27,$x20,$key
```

```
stvx v24,$x00,$key_ # off-load round[3]
```

```
?vperm v25,v31,v26,$keyperm
```

```
lvx v28,$x30,$key
```

```
stvx v25,$x10,$key_ # off-load round[4]
```

```
addi $key_,$sp,$FRAME+15 # rewind $key_
```

```
?vperm v26,v26,v27,$keyperm
```

```
lvx v29,$x40,$key
```

```
?vperm v27,v27,v28,$keyperm
```

```
lvx v30,$x50,$key
```

```
?vperm v28,v28,v29,$keyperm
```

```
lvx v31,$x60,$key
```

```
?vperm v29,v29,v30,$keyperm
```

```
lvx $out0,$x70,$key # borrow $out0
```

```
?vperm v30,v30,v31,$keyperm
```

```
lvx v24,$x00,$key_ # pre-load round[1]
```

```
?vperm v31,v31,$out0,$keyperm
```

```
lvx v25,$x10,$key_ # pre-load round[2]
```

```
vadduwm $two,$one,$one
```

```
subi $inp,$inp,15 # undo "caller"
```

```
$$SHL $len,$len,4
```

```
vadduwm $out1,$ivec,$one # counter values ...
```

```
vadduwm $out2,$ivec,$two
```

```
vxor $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
```

```
le?li $idx,8
```

```
vadduwm $out3,$out1,$two
```

```
vxor $out1,$out1,$rndkey0
```

```
le?lvsl $inpperm,0,$idx
```

```
vadduwm $out4,$out2,$two
```

```
vxor $out2,$out2,$rndkey0
```

```

le?vspltisb $tmp,0x0f
vadduwm $out5,$out3,$two
vxor $out3,$out3,$rndkey0
le?vxor $sinpperm,$sinpperm,$tmp # transform for lvx_u/stvx_u
vadduwm $out6,$out4,$two
vxor $out4,$out4,$rndkey0
vadduwm $out7,$out5,$two
vxor $out5,$out5,$rndkey0
vadduwm $ivec,$out6,$two # next counter value
vxor $out6,$out6,$rndkey0
vxor $out7,$out7,$rndkey0

```

```

mtctr $rounds
b Loop_ctr32_enc8x
.align 5
Loop_ctr32_enc8x:
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24
vcipher $out6,$out6,v24
vcipher $out7,$out7,v24
Loop_ctr32_enc8x_middle:
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

```

```

vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25
vcipher $out6,$out6,v25
vcipher $out7,$out7,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_ctr32_enc8x

```

```

subic r11,$len,256 # $len-256, borrow $key_
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24
vcipher $out6,$out6,v24
vcipher $out7,$out7,v24

```

```

subfe r0,r0,r0 # borrow?-1:0
vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25
vcipher $out6,$out6,v25
vcipher $out7,$out7,v25

and r0,r0,r11
addi $key_,$sp,$FRAME+15 # rewind $key_
vcipher $out0,$out0,v26
vcipher $out1,$out1,v26
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vcipher $out4,$out4,v26
vcipher $out5,$out5,v26
vcipher $out6,$out6,v26
vcipher $out7,$out7,v26
lvx v24,$x00,$key_ # re-pre-load round[1]

subic $len,$len,129 # $len-=129
vcipher $out0,$out0,v27
addi $len,$len,1 # $len-=128 really
vcipher $out1,$out1,v27
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vcipher $out4,$out4,v27
vcipher $out5,$out5,v27
vcipher $out6,$out6,v27
vcipher $out7,$out7,v27
lvx v25,$x10,$key_ # re-pre-load round[2]

vcipher $out0,$out0,v28
lvx_u $in0,$x00,$inp # load input
vcipher $out1,$out1,v28
lvx_u $in1,$x10,$inp
vcipher $out2,$out2,v28
lvx_u $in2,$x20,$inp
vcipher $out3,$out3,v28
lvx_u $in3,$x30,$inp
vcipher $out4,$out4,v28
lvx_u $in4,$x40,$inp
vcipher $out5,$out5,v28
lvx_u $in5,$x50,$inp
vcipher $out6,$out6,v28

```

```

lvx_u $in6,$x60,$inp
vcipher $out7,$out7,v28
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80

vcipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$inpperm
vcipher $out1,$out1,v29
le?vperm $in1,$in1,$in1,$inpperm
vcipher $out2,$out2,v29
le?vperm $in2,$in2,$in2,$inpperm
vcipher $out3,$out3,v29
le?vperm $in3,$in3,$in3,$inpperm
vcipher $out4,$out4,v29
le?vperm $in4,$in4,$in4,$inpperm
vcipher $out5,$out5,v29
le?vperm $in5,$in5,$in5,$inpperm
vcipher $out6,$out6,v29
le?vperm $in6,$in6,$in6,$inpperm
vcipher $out7,$out7,v29
le?vperm $in7,$in7,$in7,$inpperm

add $inp,$inp,r0 # $inp is adjusted in such
    # way that at exit from the
    # loop inX-in7 are loaded
    # with last "words"
subfe. r0,r0,r0 # borrow?-1:0
vcipher $out0,$out0,v30
vxor $in0,$in0,v31 # xor with last round key
vcipher $out1,$out1,v30
vxor $in1,$in1,v31
vcipher $out2,$out2,v30
vxor $in2,$in2,v31
vcipher $out3,$out3,v30
vxor $in3,$in3,v31
vcipher $out4,$out4,v30
vxor $in4,$in4,v31
vcipher $out5,$out5,v30
vxor $in5,$in5,v31
vcipher $out6,$out6,v30
vxor $in6,$in6,v31
vcipher $out7,$out7,v30
vxor $in7,$in7,v31

bne Lctr32_enc8x_break # did $len-129 borrow?

vcipherlast $in0,$out0,$in0
vcipherlast $in1,$out1,$in1

```

```

vadduwm $out1,$ivec,$one # counter values ...
vcipherlast $in2,$out2,$in2
vadduwm $out2,$ivec,$two
vxor $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
vcipherlast $in3,$out3,$in3
vadduwm $out3,$out1,$two
vxor $out1,$out1,$rndkey0
vcipherlast $in4,$out4,$in4
vadduwm $out4,$out2,$two
vxor $out2,$out2,$rndkey0
vcipherlast $in5,$out5,$in5
vadduwm $out5,$out3,$two
vxor $out3,$out3,$rndkey0
vcipherlast $in6,$out6,$in6
vadduwm $out6,$out4,$two
vxor $out4,$out4,$rndkey0
vcipherlast $in7,$out7,$in7
vadduwm $out7,$out5,$two
vxor $out5,$out5,$rndkey0
le?vperm $in0,$in0,$in0,$inpperm
vadduwm $ivec,$out6,$two # next counter value
vxor $out6,$out6,$rndkey0
le?vperm $in1,$in1,$in1,$inpperm
vxor $out7,$out7,$rndkey0
mtctr $rounds

```

```

vcipher $out0,$out0,v24
stvx_u $in0,$x00,$out
le?vperm $in2,$in2,$in2,$inpperm
vcipher $out1,$out1,v24
stvx_u $in1,$x10,$out
le?vperm $in3,$in3,$in3,$inpperm
vcipher $out2,$out2,v24
stvx_u $in2,$x20,$out
le?vperm $in4,$in4,$in4,$inpperm
vcipher $out3,$out3,v24
stvx_u $in3,$x30,$out
le?vperm $in5,$in5,$in5,$inpperm
vcipher $out4,$out4,v24
stvx_u $in4,$x40,$out
le?vperm $in6,$in6,$in6,$inpperm
vcipher $out5,$out5,v24
stvx_u $in5,$x50,$out
le?vperm $in7,$in7,$in7,$inpperm
vcipher $out6,$out6,v24
stvx_u $in6,$x60,$out
vcipher $out7,$out7,v24
stvx_u $in7,$x70,$out

```

```
addi $out,$out,0x80

b Loop_ctr32_enc8x_middle
```

```
.align 5
Lctr32_enc8x_break:
cmpwi $len,-0x60
blt Lctr32_enc8x_one
nop
beq Lctr32_enc8x_two
cmpwi $len,-0x40
blt Lctr32_enc8x_three
nop
beq Lctr32_enc8x_four
cmpwi $len,-0x20
blt Lctr32_enc8x_five
nop
beq Lctr32_enc8x_six
cmpwi $len,0x00
blt Lctr32_enc8x_seven
```

```
Lctr32_enc8x_eight:
vcipherlast $out0,$out0,$in0
vcipherlast $out1,$out1,$in1
vcipherlast $out2,$out2,$in2
vcipherlast $out3,$out3,$in3
vcipherlast $out4,$out4,$in4
vcipherlast $out5,$out5,$in5
vcipherlast $out6,$out6,$in6
vcipherlast $out7,$out7,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x60,$out
stvx_u $out7,$x70,$out
addi $out,$out,0x80
```

b Lctr32\_enc8x\_done

.align 5

Lctr32\_enc8x\_seven:

vcipherlast \$out0,\$out0,\$in1  
vcipherlast \$out1,\$out1,\$in2  
vcipherlast \$out2,\$out2,\$in3  
vcipherlast \$out3,\$out3,\$in4  
vcipherlast \$out4,\$out4,\$in5  
vcipherlast \$out5,\$out5,\$in6  
vcipherlast \$out6,\$out6,\$in7

le?vperm \$out0,\$out0,\$out0,\$inpperm  
le?vperm \$out1,\$out1,\$out1,\$inpperm  
stvx\_u \$out0,\$x00,\$out  
le?vperm \$out2,\$out2,\$out2,\$inpperm  
stvx\_u \$out1,\$x10,\$out  
le?vperm \$out3,\$out3,\$out3,\$inpperm  
stvx\_u \$out2,\$x20,\$out  
le?vperm \$out4,\$out4,\$out4,\$inpperm  
stvx\_u \$out3,\$x30,\$out  
le?vperm \$out5,\$out5,\$out5,\$inpperm  
stvx\_u \$out4,\$x40,\$out  
le?vperm \$out6,\$out6,\$out6,\$inpperm  
stvx\_u \$out5,\$x50,\$out  
stvx\_u \$out6,\$x60,\$out  
addi \$out,\$out,0x70  
b Lctr32\_enc8x\_done

.align 5

Lctr32\_enc8x\_six:

vcipherlast \$out0,\$out0,\$in2  
vcipherlast \$out1,\$out1,\$in3  
vcipherlast \$out2,\$out2,\$in4  
vcipherlast \$out3,\$out3,\$in5  
vcipherlast \$out4,\$out4,\$in6  
vcipherlast \$out5,\$out5,\$in7

le?vperm \$out0,\$out0,\$out0,\$inpperm  
le?vperm \$out1,\$out1,\$out1,\$inpperm  
stvx\_u \$out0,\$x00,\$out  
le?vperm \$out2,\$out2,\$out2,\$inpperm  
stvx\_u \$out1,\$x10,\$out  
le?vperm \$out3,\$out3,\$out3,\$inpperm  
stvx\_u \$out2,\$x20,\$out  
le?vperm \$out4,\$out4,\$out4,\$inpperm  
stvx\_u \$out3,\$x30,\$out  
le?vperm \$out5,\$out5,\$out5,\$inpperm

```
stvx_u $out4,$x40,$out
stvx_u $out5,$x50,$out
addi $out,$out,0x60
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_five:
```

```
vcipherlast $out0,$out0,$in3
vcipherlast $out1,$out1,$in4
vcipherlast $out2,$out2,$in5
vcipherlast $out3,$out3,$in6
vcipherlast $out4,$out4,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_four:
```

```
vcipherlast $out0,$out0,$in4
vcipherlast $out1,$out1,$in5
vcipherlast $out2,$out2,$in6
vcipherlast $out3,$out3,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_three:
```

```
vcipherlast $out0,$out0,$in5
vcipherlast $out1,$out1,$in6
```



```
vcipherlast $out2,$out2,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm  
le?vperm $out1,$out1,$out1,$inpperm  
stvx_u $out0,$x00,$out  
le?vperm $out2,$out2,$out2,$inpperm  
stvx_u $out1,$x10,$out  
stvx_u $out2,$x20,$out  
addi $out,$out,0x30  
b Lcbc_dec8x_done
```

```
.align 5
```

```
Lctr32_enc8x_two:
```

```
vcipherlast $out0,$out0,$in6  
vcipherlast $out1,$out1,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm  
le?vperm $out1,$out1,$out1,$inpperm  
stvx_u $out0,$x00,$out  
stvx_u $out1,$x10,$out  
addi $out,$out,0x20  
b Lcbc_dec8x_done
```

```
.align 5
```

```
Lctr32_enc8x_one:
```

```
vcipherlast $out0,$out0,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm  
stvx_u $out0,0,$out  
addi $out,$out,0x10
```

```
Lctr32_enc8x_done:
```

```
li r10,`$FRAME+15`  
li r11,`$FRAME+31`  
stvx $inpperm,r10,$sp # wipe copies of round keys  
addi r10,r10,32  
stvx $inpperm,r11,$sp  
addi r11,r11,32  
stvx $inpperm,r10,$sp  
addi r10,r10,32  
stvx $inpperm,r11,$sp  
addi r11,r11,32  
stvx $inpperm,r10,$sp  
addi r10,r10,32  
stvx $inpperm,r11,$sp  
addi r11,r11,32  
stvx $inpperm,r10,$sp  
addi r10,r10,32
```

```

stvx $sinpperm,r11,$ssp
addi r11,r11,32

mtspr 256,$vrsave
lvx v20,r10,$ssp # ABI says so
addi r10,r10,32
lvx v21,r11,$ssp
addi r11,r11,32
lvx v22,r10,$ssp
addi r10,r10,32
lvx v23,r11,$ssp
addi r11,r11,32
lvx v24,r10,$ssp
addi r10,r10,32
lvx v25,r11,$ssp
addi r11,r11,32
lvx v26,r10,$ssp
addi r10,r10,32
lvx v27,r11,$ssp
addi r11,r11,32
lvx v28,r10,$ssp
addi r10,r10,32
lvx v29,r11,$ssp
addi r11,r11,32
lvx v30,r10,$ssp
lvx v31,r11,$ssp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($ssp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($ssp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($ssp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($ssp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($ssp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($ssp)
addi $ssp,$ssp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size .${prefix}_ctr32_encrypt_blocks,-.${prefix}_ctr32_encrypt_blocks
___
}}}}

```

```
#####
```

```

{{{ # XTS procedures #
my ($inp,$out,$len,$key1,$key2,$ivp,$rounds,$idx) = map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout) = map("v$_",(0..2));
my ($output,$intail,$sinpperm,$leperm,$keyperm) = map("v$_",(3..7));
my ($tweak,$seven,$eighty7,$tmp,$tweak1) = map("v$_",(8..12));
my $taillen = $key2;

```

```

($inp,$idx) = ($idx,$inp); # reassign

$code.=<<____;
.globl ${prefix}_xts_encrypt
.align 5
.${prefix}_xts_encrypt:
mr $inp,r3 # reassign
li r3,-1
${UCMP}i $len,16
btlr-

lis r0,0xffff0
mfspr r12,256 # save vrsave
li r11,0
mtspr 256,r0

vspltisb $seven,0x07 # 0x070707..07
le?lvsl $leperm,r11,r11
le?vspltisb $tmp,0x0f
le?vxor $leperm,$leperm,$seven

li $idx,15
lvx $tweak,0,$ivp # load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $inptail,$idx,$ivp
le?vxor $inpperm,$inpperm,$tmp
vperm $tweak,$tweak,$inptail,$inpperm

?lvsl $keyperm,0,$key2 # prepare for unaligned key
lwz $rounds,240($key2)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

neg r11,$inp
lvsr $inpperm,0,r11 # prepare for unaligned load
lvx $inout,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp

lvx $rndkey0,0,$key2
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16

```

mtctr \$rounds

Ltweak\_xts\_enc:

```
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
bdnz Ltweak_xts_enc
```

```
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $tweak,$tweak,$rndkey0
```

```
lvx $inptail,0,$inp
addi $inp,$inp,16
```

```
?lvs1 $keyperm,0,$key1 # prepare for unaligned key
lwz $rounds,240($key1)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16
```

```
vslb $eighty7,$seven,$seven # 0x808080..80
vor $eighty7,$eighty7,$seven # 0x878787..87
vspltisb $tmp,1 # 0x010101..01
vsldoi $eighty7,$eighty7,$tmp,15 # 0x870101..01
```

```
${UCMP}i $len,96
bge _aesp8_xts_encrypt6x
```

```
andi $taillen,$len,15
subic r0,$len,32
subi $taillen,$taillen,16
subfe r0,r0,r0
and r0,r0,$taillen
add $inp,$inp,r0
```

```
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
vperm $inout,$inout,$inptail,$inpperm
```

```

?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
mtctr $rounds
b Loop_xts_enc

```

```
.align 5
```

```
Loop_xts_enc:
```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_enc

```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $rndkey0,$rndkey0,$tweak
vcipherlast $output,$inout,$rndkey0

```

```

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out
addi $out,$out,16

```

```

subic. $len,$len,16
beq Lxts_enc_done

```

```

vmr $inout,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16

```

```

subic r0,$len,32
subfe r0,r0,r0
and r0,r0,$taillen
add $inp,$inp,r0

```

```

vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak,$tweak,$tmp

vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $output,$output,$rndkey0 # just in case $len<16
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

mtctr $rounds
${UCMP}i $len,16
bge Loop_xts_enc

vxor $output,$output,$tweak
lvsr $inpperm,0,$len # $inpperm is no longer needed
vxor $inptail,$inptail,$inptail # $inptail is no longer needed
vspltisb $tmp,-1
vperm $inptail,$inptail,$tmp,$inpperm
vsel $inout,$inout,$output,$inptail

subi r11,$out,17
subi $out,$out,16
mtctr $len
li $len,16
Loop_xts_enc_steal:
lbzu r0,1(r11)
stb r0,16(r11)
bdnz Loop_xts_enc_steal

mtctr $rounds
b Loop_xts_enc # one more time...

Lxts_enc_done:
mtspr 256,r12 # restore vrsave
li r3,0
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_xts_encrypt,.-.${prefix}_xts_encrypt

.globl ${prefix}_xts_decrypt

```

```

.align 5
.${prefix}_xts_decrypt:
mr $inp,r3 # reassign
li r3,-1
${UCMP}i $len,16
bltr-

lis r0,0xfff8
mfspr r12,256 # save vrsave
li r11,0
mtspr 256,r0

andi. r0,$len,15
neg r0,r0
andi. r0,r0,16
sub $len,$len,r0

vspltisb $seven,0x07 # 0x070707..07
le?lvsl $leperm,r11,r11
le?vspltisb $tmp,0x0f
le?vxor $leperm,$leperm,$seven

li $idx,15
lvx $tweak,0,$ivp # load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $inptail,$idx,$ivp
le?vxor $inpperm,$inpperm,$tmp
vperm $tweak,$tweak,$inptail,$inpperm

?lvsl $keyperm,0,$key2 # prepare for unaligned key
lwz $rounds,240($key2)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

neg r11,$inp
lvsr $inpperm,0,r11 # prepare for unaligned load
lvx $inout,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp

lvx $rndkey0,0,$key2
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16

```

mtctr \$rounds

Ltweak\_xts\_dec:

```
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
bdnz Ltweak_xts_dec
```

```
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $tweak,$tweak,$rndkey0
```

```
lvx $inptail,0,$inp
addi $inp,$inp,16
```

```
?lvs1 $keyperm,0,$key1 # prepare for unaligned key
lwz $rounds,240($key1)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16
```

```
vslb $eighty7,$seven,$seven # 0x808080..80
vor $eighty7,$eighty7,$seven # 0x878787..87
vspltisb $tmp,1 # 0x010101..01
vsldoi $eighty7,$eighty7,$tmp,15 # 0x870101..01
```

```
${UCMP}i $len,96
bge _aesp8_xts_decrypt6x
```

```
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
mtctr $rounds
```



```

${UCMP}i $len,16
blt Ltail_xts_dec
be?b Loop_xts_dec

.align 5
Loop_xts_dec:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_dec

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $rndkey0,$rndkey0,$tweak
vncipherlast $output,$inout,$rndkey0

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out
addi $out,$out,16

subic. $len,$len,16
beq Lxts_dec_done

vmr $inout,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16

vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak,$tweak,$tmp

vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm

```

```

vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

mtctr $rounds
${UCMP}i $len,16
bge Loop_xts_dec

Ltail_xts_dec:
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak1,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak1,$tweak1,$tmp

subi $inp,$inp,16
add $inp,$inp,$len

vxor $inout,$inout,$tweak # :-(
vxor $inout,$inout,$tweak1 # :-)

Loop_xts_dec_short:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_dec_short

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $rndkey0,$rndkey0,$tweak1
vncipherlast $output,$inout,$rndkey0

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out

vmr $inout,$inptail
lvx $inptail,0,$inp

```

```

#addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm

lvsr $inpperm,0,$len # $inpperm is no longer needed
vxor $inptail,$inptail,$inptail # $inptail is no longer needed
vspltisb $tmp,-1
vperm $inptail,$inptail,$tmp,$inpperm
vsel $inout,$inout,$output,$inptail

vxor $rndkey0,$rndkey0,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

subi r11,$out,1
mtctr $len
li $len,16
Loop_xts_dec_steal:
lbzu r0,1(r11)
stb r0,16(r11)
bdnz Loop_xts_dec_steal

mtctr $rounds
b Loop_xts_dec # one more time...

Lxts_dec_done:
mtspr 256,r12 # restore vrsave
li r3,0
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_xts_decrypt,-.${prefix}_xts_decrypt
—
#####
{{ # Optimized XTS procedures #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
  $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5 )=map("v$_",(0..5));
my ($out0, $out1, $out2, $out3, $out4, $out5)=map("v$_",(7,12..16));
my ($twk0, $twk1, $twk2, $twk3, $twk4, $twk5)=map("v$_",(17..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
  # v26-v31 last 6 round keys

```

```
my ($keyperm)=$(Sout0); # aliases with "caller", redundant assignment
```

```
my $tailen=$x70;
```

```
$code.=<<__;
```

```
.align 5
```

```
_aesp8_xts_encrypt6x:
```

```
$STU $sp,-(`$FRAME+21*16+6*$SIZE_T`)( $sp)
```

```
mflr r0
```

```
li r7,`$FRAME+8*16+15`
```

```
li r8,`$FRAME+8*16+31`
```

```
$PUSH r0,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
```

```
stvx v20,r7,$sp # ABI says so
```

```
addi r7,r7,32
```

```
stvx v21,r8,$sp
```

```
addi r8,r8,32
```

```
stvx v22,r7,$sp
```

```
addi r7,r7,32
```

```
stvx v23,r8,$sp
```

```
addi r8,r8,32
```

```
stvx v24,r7,$sp
```

```
addi r7,r7,32
```

```
stvx v25,r8,$sp
```

```
addi r8,r8,32
```

```
stvx v26,r7,$sp
```

```
addi r7,r7,32
```

```
stvx v27,r8,$sp
```

```
addi r8,r8,32
```

```
stvx v28,r7,$sp
```

```
addi r7,r7,32
```

```
stvx v29,r8,$sp
```

```
addi r8,r8,32
```

```
stvx v30,r7,$sp
```

```
stvx v31,r8,$sp
```

```
mr r7,r0
```

```
li r0,-1
```

```
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
```

```
li $x10,0x10
```

```
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
```

```
li $x20,0x20
```

```
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
```

```
li $x30,0x30
```

```
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
```

```
li $x40,0x40
```

```
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
```

```
li $x50,0x50
```

```
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
```

```
li $x60,0x60
```

```
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
```

```

li $x70,0x70
mtspr 256,r0

subi $rounds,$rounds,3 # -4 in total

lvx $rndkey0,$x00,$key1 # load key schedule
lvx v30,$x10,$key1
addi $key1,$key1,0x20
lvx v31,$x00,$key1
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

```

Load\_xts\_enc\_key:

```

?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key1
addi $key1,$key1,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key1
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_xts_enc_key

lvx v26,$x10,$key1
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key1
stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key1
stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key1
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key1
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key1
?vperm v29,v29,v30,$keyperm
lvx $twk5,$x70,$key1 # borrow $twk5
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$twk5,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

```

```

vperm $in0,$inout,$inptail,$inpperm
subi $inp,$inp,31 # undo "caller"
vxor $twk0,$tweak,$rndkey0

```

```
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $out0,$in0,$twk0
vxor $tweak,$tweak,$tmp
```

```
lvx_u $in1,$x10,$inp
vxor $twk1,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in1,$in1,$in1,$leperm
vand $tmp,$tmp,$eighty7
vxor $out1,$in1,$twk1
vxor $tweak,$tweak,$tmp
```

```
lvx_u $in2,$x20,$inp
andi $taillen,$len,15
vxor $twk2,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in2,$in2,$in2,$leperm
vand $tmp,$tmp,$eighty7
vxor $out2,$in2,$twk2
vxor $tweak,$tweak,$tmp
```

```
lvx_u $in3,$x30,$inp
sub $len,$len,$taillen
vxor $twk3,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in3,$in3,$in3,$leperm
vand $tmp,$tmp,$eighty7
vxor $out3,$in3,$twk3
vxor $tweak,$tweak,$tmp
```

```
lvx_u $in4,$x40,$inp
subi $len,$len,0x60
vxor $twk4,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in4,$in4,$in4,$leperm
vand $tmp,$tmp,$eighty7
vxor $out4,$in4,$twk4
```

```

vxor $tweak,$tweak,$tmp

lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
vxor $twk5,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in5,$in5,$in5,$leperm
vand $tmp,$tmp,$eighty7
vxor $out5,$in5,$twk5
vxor $tweak,$tweak,$tmp

vxor v31,v31,$rndkey0
mtctr $rounds
b Loop_xts_enc6x

.align 5
Loop_xts_enc6x:
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_enc6x

subic $len,$len,96 # $len-=96
vxor $in0,$twk0,v31 # xor with last round key
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk0,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vsldoi $tmp,$tmp,$tmp,15
vcipher $out4,$out4,v24

```

```

vcipher $out5,$out5,v24

subfe. r0,r0,r0 # borrow?-1:0
vand $tmp,$tmp,$eighty7
vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vxor $tweak,$tweak,$tmp
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vxor $in1,$twk1,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk1,$tweak,$rndkey0
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25

and r0,r0,$len
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vcipher $out0,$out0,v26
vcipher $out1,$out1,v26
vand $tmp,$tmp,$eighty7
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vxor $tweak,$tweak,$tmp
vcipher $out4,$out4,v26
vcipher $out5,$out5,v26

add $inp,$inp,r0 # $inp is adjusted in such
# way that at exit from the
# loop inX-in5 are loaded
# with last "words"
vxor $in2,$twk2,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk2,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vcipher $out0,$out0,v27
vcipher $out1,$out1,v27
vsldoi $tmp,$tmp,$tmp,15
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vand $tmp,$tmp,$eighty7
vcipher $out4,$out4,v27
vcipher $out5,$out5,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vxor $tweak,$tweak,$tmp
vcipher $out0,$out0,v28
vcipher $out1,$out1,v28

```



```

vxor $in3,$twk3,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk3,$tweak,$rndkey0
vcipher $out2,$out2,v28
vcipher $out3,$out3,v28
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vcipher $out4,$out4,v28
vcipher $out5,$out5,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vand $tmp,$tmp,$eighty7

```

```

vcipher $out0,$out0,v29
vcipher $out1,$out1,v29
vxor $tweak,$tweak,$tmp
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
vxor $in4,$twk4,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk4,$tweak,$rndkey0
vcipher $out4,$out4,v29
vcipher $out5,$out5,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15

```

```

vcipher $out0,$out0,v30
vcipher $out1,$out1,v30
vand $tmp,$tmp,$eighty7
vcipher $out2,$out2,v30
vcipher $out3,$out3,v30
vxor $tweak,$tweak,$tmp
vcipher $out4,$out4,v30
vcipher $out5,$out5,v30
vxor $in5,$twk5,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk5,$tweak,$rndkey0

```

```

vcipherlast $out0,$out0,$in0
lvx_u $in0,$x00,$inp # load next input block
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vcipherlast $out1,$out1,$in1
lvx_u $in1,$x10,$inp
vcipherlast $out2,$out2,$in2
le?vperm $in0,$in0,$in0,$leperm
lvx_u $in2,$x20,$inp
vand $tmp,$tmp,$eighty7

```

```

vcipherlast $out3,$out3,$in3
le?vperm $in1,$in1,$in1,$leperm
lvx_u $in3,$x30,$inp
vcipherlast $out4,$out4,$in4
le?vperm $in2,$in2,$in2,$leperm
lvx_u $in4,$x40,$inp
vxor $tweak,$tweak,$tmp
vcipherlast $tmp,$out5,$in5 # last block might be needed
    # in stealing mode
le?vperm $in3,$in3,$in3,$leperm
lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
le?vperm $in4,$in4,$in4,$leperm
le?vperm $in5,$in5,$in5,$leperm

```

```

le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
vxor $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
vxor $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
vxor $out3,$in3,$twk3
le?vperm $out5,$tmp,$tmp,$leperm
stvx_u $out4,$x40,$out
vxor $out4,$in4,$twk4
le?stvx_u $out5,$x50,$out
be?stvx_u $tmp, $x50,$out
vxor $out5,$in5,$twk5
addi $out,$out,0x60

```

```

mtctr $rounds
beq Loop_xts_enc6x # did $len==96 borrow?

```

```

addic $len,$len,0x60
beq Lxts_enc6x_zero
cmpwi $len,0x20
blt Lxts_enc6x_one
nop
beq Lxts_enc6x_two
cmpwi $len,0x40
blt Lxts_enc6x_three
nop

```

```
beq Lxts_enc6x_four
```

```
Lxts_enc6x_five:
```

```
vxor $out0,$in1,$twk0
```

```
vxor $out1,$in2,$twk1
```

```
vxor $out2,$in3,$twk2
```

```
vxor $out3,$in4,$twk3
```

```
vxor $out4,$in5,$twk4
```

```
bl _aesp8_xts_enc5x
```

```
le?vperm $out0,$out0,$out0,$leperm
```

```
vmr $twk0,$twk5 # unused tweak
```

```
le?vperm $out1,$out1,$out1,$leperm
```

```
stvx_u $out0,$x00,$out # store output
```

```
le?vperm $out2,$out2,$out2,$leperm
```

```
stvx_u $out1,$x10,$out
```

```
le?vperm $out3,$out3,$out3,$leperm
```

```
stvx_u $out2,$x20,$out
```

```
vxor $tmp,$out4,$twk5 # last block prep for stealing
```

```
le?vperm $out4,$out4,$out4,$leperm
```

```
stvx_u $out3,$x30,$out
```

```
stvx_u $out4,$x40,$out
```

```
addi $out,$out,0x50
```

```
bne Lxts_enc6x_steal
```

```
b Lxts_enc6x_done
```

```
.align 4
```

```
Lxts_enc6x_four:
```

```
vxor $out0,$in2,$twk0
```

```
vxor $out1,$in3,$twk1
```

```
vxor $out2,$in4,$twk2
```

```
vxor $out3,$in5,$twk3
```

```
vxor $out4,$out4,$out4
```

```
bl _aesp8_xts_enc5x
```

```
le?vperm $out0,$out0,$out0,$leperm
```

```
vmr $twk0,$twk4 # unused tweak
```

```
le?vperm $out1,$out1,$out1,$leperm
```

```
stvx_u $out0,$x00,$out # store output
```

```
le?vperm $out2,$out2,$out2,$leperm
```

```
stvx_u $out1,$x10,$out
```

```
vxor $tmp,$out3,$twk4 # last block prep for stealing
```

```
le?vperm $out3,$out3,$out3,$leperm
```

```
stvx_u $out2,$x20,$out
```

```
stvx_u $out3,$x30,$out
```

```
addi $out,$out,0x40
```

```
bne Lxts_enc6x_steal
b Lxts_enc6x_done
```

```
.align 4
```

```
Lxts_enc6x_three:
```

```
vxor $out0,$in3,$twk0
vxor $out1,$in4,$twk1
vxor $out2,$in5,$twk2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4
```

```
bl _aesp8_xts_enc5x
```

```
le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk3 # unused tweak
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $tmp,$out2,$twk3 # last block prep for stealing
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
bne Lxts_enc6x_steal
b Lxts_enc6x_done
```

```
.align 4
```

```
Lxts_enc6x_two:
```

```
vxor $out0,$in4,$twk0
vxor $out1,$in5,$twk1
vxor $out2,$out2,$out2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4
```

```
bl _aesp8_xts_enc5x
```

```
le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk2 # unused tweak
vxor $tmp,$out1,$twk2 # last block prep for stealing
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
stvx_u $out1,$x10,$out
addi $out,$out,0x20
bne Lxts_enc6x_steal
b Lxts_enc6x_done
```

```
.align 4
```

```
Lxts_enc6x_one:
```

```
vxor $out0,$in5,$twk0
```

```

nop
Loop_xts_enc1x:
vcipher $out0,$out0,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_enc1x

add $inp,$inp,$taillen
cmpwi $taillen,0
vcipher $out0,$out0,v24

subi $inp,$inp,16
vcipher $out0,$out0,v25

lvsr $inperm,0,$taillen
vcipher $out0,$out0,v26

lvx_u $in0,0,$inp
vcipher $out0,$out0,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vcipher $out0,$out0,v28
lvx v24,$x00,$key_ # re-pre-load round[1]

vcipher $out0,$out0,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $twk0,$twk0,v31

le?vperm $in0,$in0,$in0,$leperm
vcipher $out0,$out0,v30

vperm $in0,$in0,$in0,$inperm
vcipherlast $out0,$out0,$twk0

vmr $twk0,$twk1 # unused tweak
vxor $tmp,$out0,$twk1 # last block prep for stealing
le?vperm $out0,$out0,$out0,$leperm
stvx_u $out0,$x00,$out # store output
addi $out,$out,0x10
bne Lxts_enc6x_steal
b Lxts_enc6x_done

.align 4
Lxts_enc6x_zero:
cmpwi $taillen,0

```

```

beq Lxts_enc6x_done

add $inp,$inp,$taillen
subi $inp,$inp,16
lvx_u $in0,0,$inp
lvsr $inpperm,0,$taillen # $in5 is no more
le?vperm $in0,$in0,$in0,$leperm
vperm $in0,$in0,$in0,$inpperm
vxor $tmp,$tmp,$twk0
Lxts_enc6x_steal:
vxor $in0,$in0,$twk0
vxor $out0,$out0,$out0
vspltisb $out1,-1
vperm $out0,$out0,$out1,$inpperm
vsel $out0,$in0,$tmp,$out0 # $tmp is last block, remember?

subi r3,$out,17
subi $out,$out,16
mtctr $taillen
Loop_xts_enc6x_steal:
lbzu r0,1(r3)
stb r0,16(r3)
bdnz Loop_xts_enc6x_steal

li $taillen,0
mtctr $rounds
b Loop_xts_enc1x # one more time...

.align 4
Lxts_enc6x_done:
mtlr r7
li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $seven,r10,$sp # wipe copies of round keys
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp

```

```

addi r11,r11,32

mtspr 256,$vrsave
lvx v20,r10,$sp # ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,1,0x80,6,6,0
.long 0

.align 5
_aesp8_xts_enc5x:
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25

```

```

vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
lvx v25,$x10,$key_ # round[4]
bdnz _aesp8_xts_enc5x

add $inp,$inp,$taillen
cmpwi $taillen,0
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24

subi $inp,$inp,16
vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vxor $twk0,$twk0,v31

vcipher $out0,$out0,v26
lvsr $inperm,r0,$taillen # $in5 is no more
vcipher $out1,$out1,v26
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vcipher $out4,$out4,v26
vxor $in1,$twk1,v31

vcipher $out0,$out0,v27
lvx_u $in0,0,$inp
vcipher $out1,$out1,v27
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vcipher $out4,$out4,v27
vxor $in2,$twk2,v31

addi $key_,$sp,$FRAME+15 # rewind $key_
vcipher $out0,$out0,v28
vcipher $out1,$out1,v28
vcipher $out2,$out2,v28
vcipher $out3,$out3,v28
vcipher $out4,$out4,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vxor $in3,$twk3,v31

```



```

vcipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$leperm
vcipher $out1,$out1,v29
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
vcipher $out4,$out4,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $in4,$twk4,v31

vcipher $out0,$out0,v30
vperm $in0,$in0,$in0,$inpperm
vcipher $out1,$out1,v30
vcipher $out2,$out2,v30
vcipher $out3,$out3,v30
vcipher $out4,$out4,v30

vcipherlast $out0,$out0,$twk0
vcipherlast $out1,$out1,$in1
vcipherlast $out2,$out2,$in2
vcipherlast $out3,$out3,$in3
vcipherlast $out4,$out4,$in4
blr
    .long 0
    .byte 0,12,0x14,0,0,0,0

.align 5
_aesp8_xts_decrypt6x:
$STU $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
mflr r0
li r7,`$FRAME+8*16+15`
li r8,`$FRAME+8*16+31`
$PUSH r0,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
stvx v20,r7,$sp # ABI says so
addi r7,r7,32
stvx v21,r8,$sp
addi r8,r8,32
stvx v22,r7,$sp
addi r7,r7,32
stvx v23,r8,$sp
addi r8,r8,32
stvx v24,r7,$sp
addi r7,r7,32
stvx v25,r8,$sp
addi r8,r8,32
stvx v26,r7,$sp
addi r7,r7,32
stvx v27,r8,$sp
addi r8,r8,32

```

```

stvx v28,r7,$sp
addi r7,r7,32
stvx v29,r8,$sp
addi r8,r8,32
stvx v30,r7,$sp
stvx v31,r8,$sp
mr r7,r0
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

```

```

subi $rounds,$rounds,3 # -4 in total

```

```

lvx $rndkey0,$x00,$key1 # load key schedule
lvx v30,$x10,$key1
addi $key1,$key1,0x20
lvx v31,$x00,$key1
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

```

Load\_xts\_dec\_key:

```

?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key1
addi $key1,$key1,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key1
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_xts_dec_key

```

```

lvx v26,$x10,$key1
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key1

```

```

stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key1
stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key1
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key1
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key1
?vperm v29,v29,v30,$keyperm
lvx $twk5,$x70,$key1 # borrow $twk5
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$twk5,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

```

```

vperm $in0,$inout,$inptail,$inpperm
subi $inp,$inp,31 # undo "caller"
vxor $twk0,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $out0,$in0,$twk0
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in1,$x10,$inp
vxor $twk1,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in1,$in1,$in1,$leperm
vand $tmp,$tmp,$eighty7
vxor $out1,$in1,$twk1
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in2,$x20,$inp
andi. $taillen,$len,15
vxor $twk2,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in2,$in2,$in2,$leperm
vand $tmp,$tmp,$eighty7
vxor $out2,$in2,$twk2
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in3,$x30,$inp
sub $len,$len,$taillen
vxor $twk3,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in3,$in3,$in3,$leperm
vand $tmp,$tmp,$eighty7
vxor $out3,$in3,$twk3
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in4,$x40,$inp
subi $len,$len,0x60
vxor $twk4,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in4,$in4,$in4,$leperm
vand $tmp,$tmp,$eighty7
vxor $out4,$in4,$twk4
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
vxor $twk5,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in5,$in5,$in5,$leperm
vand $tmp,$tmp,$eighty7
vxor $out5,$in5,$twk5
vxor $tweak,$tweak,$tmp

```

```

vxor v31,v31,$rndkey0
mtctr $rounds
b Loop_xts_dec6x

```

```

.align 5
Loop_xts_dec6x:
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

```

```

vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_dec6x

subic $len,$len,96 # $len-=96
vxor $in0,$twk0,v31 # xor with last round key
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk0,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vsldoi $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24

subfe. r0,r0,r0 # borrow?-1:0
vand $tmp,$tmp,$eighty7
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vxor $tweak,$tweak,$tmp
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vxor $in1,$twk1,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk1,$tweak,$rndkey0
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25

and r0,r0,$len
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vand $tmp,$tmp,$eighty7
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vxor $tweak,$tweak,$tmp
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26

```

```

add $inp,$inp,r0 # $inp is adjusted in such
    # way that at exit from the
    # loop inX-in5 are loaded
    # with last "words"
vxor $in2,$twk2,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk2,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
vsldoi $tmp,$tmp,$tmp,15
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vand $tmp,$tmp,$eighty7
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vxor $tweak,$tweak,$tmp
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vxor $in3,$twk3,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk3,$tweak,$rndkey0
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vand $tmp,$tmp,$eighty7

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
vxor $tweak,$tweak,$tmp
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vxor $in4,$twk4,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk4,$tweak,$rndkey0
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15

vncipher $out0,$out0,v30

```

```

vncipher $out1,$out1,v30
vand $tmp,$tmp,$eighty7
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
vxor $tweak,$tweak,$tmp
vncipher $out4,$out4,v30
vncipher $out5,$out5,v30
vxor $in5,$twk5,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk5,$tweak,$rndkey0

```

```

vncipherlast $out0,$out0,$in0
lvx_u $in0,$x00,$inp # load next input block
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipherlast $out1,$out1,$in1
lvx_u $in1,$x10,$inp
vncipherlast $out2,$out2,$in2
le?vperm $in0,$in0,$in0,$leperm
lvx_u $in2,$x20,$inp
vand $tmp,$tmp,$eighty7
vncipherlast $out3,$out3,$in3
le?vperm $in1,$in1,$in1,$leperm
lvx_u $in3,$x30,$inp
vncipherlast $out4,$out4,$in4
le?vperm $in2,$in2,$in2,$leperm
lvx_u $in4,$x40,$inp
vxor $tweak,$tweak,$tmp
vncipherlast $out5,$out5,$in5
le?vperm $in3,$in3,$in3,$leperm
lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
le?vperm $in4,$in4,$in4,$leperm
le?vperm $in5,$in5,$in5,$leperm

```

```

le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
vxor $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
vxor $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
vxor $out3,$in3,$twk3

```

```

le?vperm $out5,$out5,$out5,$leperm
stvx_u $out4,$x40,$out
v xor $out4,$in4,$twk4
stvx_u $out5,$x50,$out
v xor $out5,$in5,$twk5
addi $out,$out,0x60

mtctr $rounds
beq Loop_xts_dec6x # did $len-=96 borrow?

addic $len,$len,0x60
beq Lxts_dec6x_zero
cmpwi $len,0x20
blt Lxts_dec6x_one
nop
beq Lxts_dec6x_two
cmpwi $len,0x40
blt Lxts_dec6x_three
nop
beq Lxts_dec6x_four

Lxts_dec6x_five:
v xor $out0,$in1,$twk0
v xor $out1,$in2,$twk1
v xor $out2,$in3,$twk2
v xor $out3,$in4,$twk3
v xor $out4,$in5,$twk4

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk5 # unused tweak
v xor $twk1,$tweak,$rndkey0
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
v xor $out0,$in0,$twk1
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
bne Lxts_dec6x_steal
b Lxts_dec6x_done

.align 4

```



```

Lxts_dec6x_four:
vxor $out0,$in2,$twk0
vxor $out1,$in3,$twk1
vxor $out2,$in4,$twk2
vxor $out3,$in5,$twk3
vxor $out4,$out4,$out4

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk4 # unused tweak
vmr $twk1,$twk5
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk5
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40
bne Lxts_dec6x_steal
b Lxts_dec6x_done

```

```
.align 4
```

```

Lxts_dec6x_three:
vxor $out0,$in3,$twk0
vxor $out1,$in4,$twk1
vxor $out2,$in5,$twk2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

```

```
bl _aesp8_xts_dec5x
```

```

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk3 # unused tweak
vmr $twk1,$twk4
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk4
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
bne Lxts_dec6x_steal
b Lxts_dec6x_done

```

```
.align 4
```

```

Lxts_dec6x_two:
    vxor $out0,$in4,$twk0
    vxor $out1,$in5,$twk1
    vxor $out2,$out2,$out2
    vxor $out3,$out3,$out3
    vxor $out4,$out4,$out4

    bl _aesp8_xts_dec5x

    le?vperm $out0,$out0,$out0,$leperm
    vmr $twk0,$twk2 # unused tweak
    vmr $twk1,$twk3
    le?vperm $out1,$out1,$out1,$leperm
    stvx_u $out0,$x00,$out # store output
    vxor $out0,$in0,$twk3
    stvx_u $out1,$x10,$out
    addi $out,$out,0x20
    bne Lxts_dec6x_steal
    b Lxts_dec6x_done

.align 4
Lxts_dec6x_one:
    vxor $out0,$in5,$twk0
    nop
Loop_xts_dec1x:
    vncipher $out0,$out0,v24
    lvx v24,$x20,$key_ # round[3]
    addi $key_,$key_,0x20

    vncipher $out0,$out0,v25
    lvx v25,$x10,$key_ # round[4]
    bdnz Loop_xts_dec1x

    subi r0,$taillen,1
    vncipher $out0,$out0,v24

    andi r0,r0,16
    cmpwi $taillen,0
    vncipher $out0,$out0,v25

    sub $inp,$inp,r0
    vncipher $out0,$out0,v26

    lvx_u $in0,0,$inp
    vncipher $out0,$out0,v27

    addi $key_,$sp,$FRAME+15 # rewind $key_
    vncipher $out0,$out0,v28

```

```
lvx v24,$x00,$key_ # re-pre-load round[1]
```

```
vncipher $out0,$out0,v29
```

```
lvx v25,$x10,$key_ # re-pre-load round[2]
```

```
vxor $twk0,$twk0,v31
```

```
le?vperm $in0,$in0,$in0,$leperm
```

```
vncipher $out0,$out0,v30
```

```
mtctr $rounds
```

```
vncipherlast $out0,$out0,$twk0
```

```
vmr $twk0,$twk1 # unused tweak
```

```
vmr $twk1,$twk2
```

```
le?vperm $out0,$out0,$out0,$leperm
```

```
stvx_u $out0,$x00,$out # store output
```

```
addi $out,$out,0x10
```

```
vxor $out0,$in0,$twk2
```

```
bne Lxts_dec6x_steal
```

```
b Lxts_dec6x_done
```

```
.align 4
```

```
Lxts_dec6x_zero:
```

```
cmpwi $taillen,0
```

```
beq Lxts_dec6x_done
```

```
lvx_u $in0,0,$inp
```

```
le?vperm $in0,$in0,$in0,$leperm
```

```
vxor $out0,$in0,$twk1
```

```
Lxts_dec6x_steal:
```

```
vncipher $out0,$out0,v24
```

```
lvx v24,$x20,$key_ # round[3]
```

```
addi $key_,$key_,0x20
```

```
vncipher $out0,$out0,v25
```

```
lvx v25,$x10,$key_ # round[4]
```

```
bdnz Lxts_dec6x_steal
```

```
add $inp,$inp,$taillen
```

```
vncipher $out0,$out0,v24
```

```
cmpwi $taillen,0
```

```
vncipher $out0,$out0,v25
```

```
lvx_u $in0,0,$inp
```

```
vncipher $out0,$out0,v26
```

```
lvsr $inpperm,0,$taillen # $in5 is no more
```

```

vncipher $out0,$out0,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
lvx v24,$x00,$key_ # re-pre-load round[1]

vncipher $out0,$out0,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $twk1,$twk1,v31

le?vperm $in0,$in0,$in0,$leperm
vncipher $out0,$out0,v30

vperm $in0,$in0,$in0,$inpperm
vncipherlast $tmp,$out0,$twk1

le?vperm $out0,$tmp,$tmp,$leperm
le?stvx_u $out0,0,$out
be?stvx_u $tmp,0,$out

vxor $out0,$out0,$out0
vspltisb $out1,-1
vperm $out0,$out0,$out1,$inpperm
vsel $out0,$in0,$tmp,$out0
vxor $out0,$out0,$twk0

subi r3,$out,1
mtctr $taillen
Loop_xts_dec6x_steal:
lbzu r0,1(r3)
stb r0,16(r3)
bdnz Loop_xts_dec6x_steal

li $taillen,0
mtctr $rounds
b Loop_xts_dec1x # one more time...

.align 4
Lxts_dec6x_done:
mtr r7
li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $seven,r10,$sp # wipe copies of round keys
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32

```

```

stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32

mtspr 256,$vrsave
lvx v20,r10,$sp # ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,1,0x80,6,6,0
.long 0

.align 5
_esp8_xts_dec5x:

```

```
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20
```

```
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
lvx v25,$x10,$key_ # round[4]
bdnz _aesp8_xts_dec5x
```

```
subi r0,$taillen,1
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
```

```
andi r0,r0,16
cmpwi $taillen,0
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vxor $twk0,$twk0,v31
```

```
sub $inp,$inp,r0
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vxor $in1,$twk1,v31
```

```
vncipher $out0,$out0,v27
lvx_u $in0,0,$inp
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vxor $in2,$twk2,v31
```

```

addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vxor $in3,$twk3,v31

vncipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$leperm
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $in4,$twk4,v31

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
vncipher $out4,$out4,v30

vncipherlast $out0,$out0,$twk0
vncipherlast $out1,$out1,$in1
vncipherlast $out2,$out2,$in2
vncipherlast $out3,$out3,$in3
vncipherlast $out4,$out4,$in4
mtctr $rounds
blr
    .long 0
    .byte 0,12,0x14,0,0,0,0,0
} } } }

my $const=1;
foreach(split("\n",$code)) {
    s/^(.*)$/eval($1)/geo;

# constants table endian-specific conversion
if ($const && m/^(long|byte)s+(.)s+(\?[a-z]*)$/o) {
    my $conv=$3;
    my @bytes=();

# convert to endian-agnostic format
if ($1 eq "long") {
    foreach (split(/,s*/, $2)) {

```

```

my $l = /^0/?oct:int;
push @bytes,($l>>24)&0xff,($l>>16)&0xff,($l>>8)&0xff,$l&0xff;
    }
    } else {
@bytes = map(/^0/?oct:int,split(/,s*/, $2));
    }

    # little-endian conversion
    if ($flavour =~ /le$/o) {
SWITCH: for($conv) {
    ^?inv/ && do { @bytes=map($_^0xf,@bytes); last; };
    ^?rev/ && do { @bytes=reverse(@bytes); last; };
}
    }

    #emit
    print ".byte\t",join(', ',map (sprintf("0x%02x",$_),@bytes)), "\n";
    next;
}
$consts=0 if (m/Lconst:/o); # end of table

# instructions prefixed with '?' are endian-specific and need
# to be adjusted accordingly...
if ($flavour =~ /le$/o) { # little-endian
    s/le\?//o or
    s/be\?/#be#/o or
    s/\?lvsr/lvsl/o or
    s/\?lvsl/lvsr/o or
    s/\?(vperm\s+v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+)/$1$3$2$4/o or
    s/\?(vsldoi\s+v[0-9]+\,s*)(v[0-9]+\,)\s*(v[0-9]+\,s*)([0-9]+)/$1$3$2 16-$4/o or
    s/\?(vspltw\s+v[0-9]+\,s*)(v[0-9]+\,)\s*([0-9])/ $1$2 3-$3/o;
} else { # big-endian
    s/le\?/#le#/o or
    s/be\?//o or
    s/\?([a-z]+)/$1/o;
}

    print $_, "\n";
}

close STDOUT;

```

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```

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/fips.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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2.0.16/crypto/bn/bn_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rand/rand_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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\* rijndael-alg-fst.c

\*

\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

\* @author Paulo Barreto <paulo.barreto@terra.com.br>

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/o\_dir.h  
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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ecdh/ech\_locl.h

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ecdsa/ecs\_locl.h

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/asn1/asn1t.h

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_prime.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_rand.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips\_md.c

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/aes\_locl.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/aes.h  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ecdh/ech\_key.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-



2.0.16/crypto/ecdh/ech\_ossl.c

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*  
*  
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* OpenSSL library to perform a variety of common cryptographic  
* functions. A power-up self test is demonstrated by deliberately  
* pointing to an invalid executable hash  
*  
* Contributed by Steve Marquess.  
*  
*/
```

Found in path(s):

`/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_test_suite.c`

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```
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```

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```
#!/usr/bin/env perl
```

```
# =====  
# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL  
# project. The module is, however, dual licensed under OpenSSL and  
# CRYPTOGRAMS licenses depending on where you obtain it. For further  
# details see http://www.openssl.org/~appro/cryptogams/.  
# =====
```

```
# I let hardware handle unaligned input(*), except on page boundaries  
# (see below for details). Otherwise straightforward implementation  
# with X vector in register bank. The module is big-endian [which is  
# not big deal as there're no little-endian targets left around].  
#
```

```
# (*) this means that this module is inappropriate for PPC403? Does  
# anybody know if pre-POWER3 can sustain unaligned load?
```

```
# -m64 -m32  
# -----  
# PPC970,gcc-4.0.0 +76% +59%  
# Power6,xlc-7 +68% +33%
```

```
$flavour = shift;
```

```
if ($flavour =~ /64/) {  
    $SIZE_T = 8;  
    $LRSIZE = 2*$SIZE_T;  
    $UCMP = "cimpld";  
    $STU = "stdu";  
    $POP = "ld";  
    $PUSH = "std";  
} elsif ($flavour =~ /32/) {  
    $SIZE_T = 4;  
    $LRSIZE = $SIZE_T;  
    $UCMP = "cimplw";  
    $STU = "stwu";  
    $POP = "lwz";  
    $PUSH = "stw";  
} else { die "nonsense $flavour"; }
```

```
$0 =~ m/(.*/[\s\S][^\\]+$/; $dir=$1;  
( $xlate="{dir}ppc-xlate.pl" and -f $xlate ) or  
( $xlate="{dir}../perlasm/ppc-xlate.pl" and -f $xlate ) or  
die "can't locate ppc-xlate.pl";
```

```
open STDOUT,"| $^X $xlate $flavour ".shift || die "can't call $xlate: $!";
```

```
$FRAME=24*$SIZE_T+64;
```

```
$LOCALS=6*$SIZE_T;
```

```
$K ="r0";
```

```
$sp ="r1";
```

```
$toc="r2";
```

```
$ctx="r3";
```

```
$inp="r4";
```

```
$num="r5";
```

```
$t0 ="r15";
```

```
$t1 ="r6";
```

```
$A ="r7";
```

```
$B ="r8";
```

```
$C ="r9";
```

```
$D ="r10";
```

```
$E ="r11";
```

```
$T ="r12";
```

```
@V=(A,B,C,D,E,T);
```

```
@X=("r16","r17","r18","r19","r20","r21","r22","r23",  
    "r24","r25","r26","r27","r28","r29","r30","r31");
```

```
sub BODY_00_19 {
```

```
my ($i,$a,$b,$c,$d,$e,$f)=@_;
```

```
my $j=$i+1;
```

```
$code.=<<__ if ($i==0);
```

```
lwz @X[$i],`$i*4`($inp)
```

```
__
```

```
$code.=<<__ if ($i<15);
```

```
lwz @X[$j],`$j*4`($inp)
```

```
add $f,$K,$e
```

```
rotlwi $e,$a,5
```

```
add $f,$f,@X[$i]
```

```
and $t0,$c,$b
```

```
add $f,$f,$e
```

```
andc $t1,$d,$b
```

```
rotlwi $b,$b,30
```

```
or $t0,$t0,$t1
```

```
add $f,$f,$t0
```

```
__
```

```
$code.=<<__ if ($i>=15);
```

```
add $f,$K,$e
```

```
rotlwi $e,$a,5
```

```
xor @X[$j%16],@X[$j%16],@X[(($j+2)%16]
```

```

add $f,$f,@X[$i%16]
and $t0,$c,$b
xor @X[$j%16],@X[$j%16],@X[(j+8)%16]
add $f,$f,$e
andc $t1,$d,$b
rotlwi $b,$b,30
or $t0,$t0,$t1
xor @X[$j%16],@X[$j%16],@X[(j+13)%16]
add $f,$f,$t0
rotlwi @X[$j%16],@X[$j%16],1

```

```

}

```

```

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<__ if ($i<79);
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(j+2)%16]
add $f,$f,@X[$i%16]
xor $t0,$b,$c
xor @X[$j%16],@X[$j%16],@X[(j+8)%16]
add $f,$f,$e
rotlwi $b,$b,30
xor $t0,$t0,$d
xor @X[$j%16],@X[$j%16],@X[(j+13)%16]
add $f,$f,$t0
rotlwi @X[$j%16],@X[$j%16],1

```

```

__
$code.=<<__ if ($i==79);
add $f,$K,$e
rotlwi $e,$a,5
lwz r16,0($ctx)
add $f,$f,@X[$i%16]
xor $t0,$b,$c
lwz r17,4($ctx)
add $f,$f,$e
rotlwi $b,$b,30
lwz r18,8($ctx)
xor $t0,$t0,$d
lwz r19,12($ctx)
add $f,$f,$t0
lwz r20,16($ctx)
__
}

```

```

sub BODY_40_59 {

```

```

my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<____;
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(j+2)%16]
add $f,$f,@X[$i%16]
and $t0,$b,$c
xor @X[$j%16],@X[$j%16],@X[(j+8)%16]
add $f,$f,$e
or $t1,$b,$c
rotlwi $b,$b,30
xor @X[$j%16],@X[$j%16],@X[(j+13)%16]
and $t1,$t1,$d
or $t0,$t0,$t1
rotlwi @X[$j%16],@X[$j%16],1
add $f,$f,$t0
_____
}

```

```

$code.=<<____;
.machine "any"
.text

```

```

.globl .sha1_block_data_order
.align 4
.sha1_block_data_order:
$STU $sp,-$FRAME($sp)
mflr r0
$PUSH r15,`$FRAME-$SIZE_T*17`($sp)
$PUSH r16,`$FRAME-$SIZE_T*16`($sp)
$PUSH r17,`$FRAME-$SIZE_T*15`($sp)
$PUSH r18,`$FRAME-$SIZE_T*14`($sp)
$PUSH r19,`$FRAME-$SIZE_T*13`($sp)
$PUSH r20,`$FRAME-$SIZE_T*12`($sp)
$PUSH r21,`$FRAME-$SIZE_T*11`($sp)
$PUSH r22,`$FRAME-$SIZE_T*10`($sp)
$PUSH r23,`$FRAME-$SIZE_T*9`($sp)
$PUSH r24,`$FRAME-$SIZE_T*8`($sp)
$PUSH r25,`$FRAME-$SIZE_T*7`($sp)
$PUSH r26,`$FRAME-$SIZE_T*6`($sp)
$PUSH r27,`$FRAME-$SIZE_T*5`($sp)
$PUSH r28,`$FRAME-$SIZE_T*4`($sp)
$PUSH r29,`$FRAME-$SIZE_T*3`($sp)
$PUSH r30,`$FRAME-$SIZE_T*2`($sp)
$PUSH r31,`$FRAME-$SIZE_T*1`($sp)
$PUSH r0,`$FRAME+$LRSAVE`($sp)
lwz $A,0($ctx)

```



```
lwz $B,4($ctx)
lwz $C,8($ctx)
lwz $D,12($ctx)
lwz $E,16($ctx)
andi. r0,$inp,3
bne Lunaligned
```

Laligned:

```
mtctr $num
bl Lsha1_block_private
b Ldone
```

; PowerPC specification allows an implementation to be ill-behaved  
; upon unaligned access which crosses page boundary. "Better safe  
; than sorry" principle makes me treat it specially. But I don't  
; look for particular offending word, but rather for 64-byte input  
; block which crosses the boundary. Once found that block is aligned  
; and hashed separately...

```
.align 4
```

Lunaligned:

```
subfic $t1,$inp,4096
andi. $t1,$t1,4095 ; distance to closest page boundary
srwi. $t1,$t1,6 ; t1/=64
beq Lcross_page
$UCMP $num,$t1
ble Laligned ; didn't cross the page boundary
mtctr $t1
subfc $num,$t1,$num
bl Lsha1_block_private
```

Lcross\_page:

```
li $t1,16
mtctr $t1
addi r20,$sp,$LOCALS ; spot within the frame
```

Lmemcpy:

```
lbz r16,0($inp)
lbz r17,1($inp)
lbz r18,2($inp)
lbz r19,3($inp)
addi $inp,$inp,4
stb r16,0(r20)
stb r17,1(r20)
stb r18,2(r20)
stb r19,3(r20)
addi r20,r20,4
bdnz Lmemcpy
```

```
$PUSH $inp,`$FRAME-$SIZE_T*18`($sp)
```

```
li $t1,1
```

```
addi $inp,$sp,$LOCALS
```

```

mtctr $t1
bl Lsha1_block_private
$POP $inp,`$FRAME-$$SIZE_T*18`($sp)
addic. $num,$num,-1
bne Lunaligned

```

Ldone:

```

$POP r0,`$FRAME+$LRSERVE`($sp)
$POP r15,`$FRAME-$$SIZE_T*17`($sp)
$POP r16,`$FRAME-$$SIZE_T*16`($sp)
$POP r17,`$FRAME-$$SIZE_T*15`($sp)
$POP r18,`$FRAME-$$SIZE_T*14`($sp)
$POP r19,`$FRAME-$$SIZE_T*13`($sp)
$POP r20,`$FRAME-$$SIZE_T*12`($sp)
$POP r21,`$FRAME-$$SIZE_T*11`($sp)
$POP r22,`$FRAME-$$SIZE_T*10`($sp)
$POP r23,`$FRAME-$$SIZE_T*9`($sp)
$POP r24,`$FRAME-$$SIZE_T*8`($sp)
$POP r25,`$FRAME-$$SIZE_T*7`($sp)
$POP r26,`$FRAME-$$SIZE_T*6`($sp)
$POP r27,`$FRAME-$$SIZE_T*5`($sp)
$POP r28,`$FRAME-$$SIZE_T*4`($sp)
$POP r29,`$FRAME-$$SIZE_T*3`($sp)
$POP r30,`$FRAME-$$SIZE_T*2`($sp)
$POP r31,`$FRAME-$$SIZE_T*1`($sp)
mtr r0
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,18,3,0
.long 0

```

# This is private block function, which uses tailored calling  
 # interface, namely upon entry SHA\_CTX is pre-loaded to given  
 # registers and counter register contains amount of chunks to  
 # digest...

```
$code.=<<<__;
```

```
.align 4
```

```
Lsha1_block_private:
```

```

$code.=<<<__; # load K_00_19
lis $K,0x5a82
ori $K,$K,0x7999

```

```
for($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
```

```
$code.=<<<__; # load K_20_39
```

```
lis $K,0x6ed9
```

```

ori $K,$K,0xeba1

—
for(;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_40_59
lis $K,0x8f1b
ori $K,$K,0xbcdb

—
for(;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_60_79
lis $K,0xca62
ori $K,$K,0xc1d6

—
for(;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___;
add r16,r16,$E
add r17,r17,$T
add r18,r18,$A
add r19,r19,$B
add r20,r20,$C
stw r16,0($ctx)
mr $A,r16
stw r17,4($ctx)
mr $B,r17
stw r18,8($ctx)
mr $C,r18
stw r19,12($ctx)
mr $D,r19
stw r20,16($ctx)
mr $E,r20
addi $inp,$inp,`16*4`
bdnz Lsha1_block_private
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0

—
$code.=<<<___;
.asciz "SHA1 block transform for PPC, CRYPTOGRAMS by <appro\@fy.chalmers.se>"

—

$code =~ s/^\s*([^\s]*)\s*/eval $1/gem;
print $code;
close STDOUT;

```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-ppc.pl
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```

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/md32\_common.h

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\*/

```
#define FIPS_AUTH_KEY "etaonrishdlcupfm"  
#define FIPS_AUTH_CRYPTOFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"  
#define FIPS_AUTH_CRYPTouser "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"
```

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\*/opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips\_auth.in

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn.h

```



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`/*.c>, <crypto/*/*.c>, <ssl/*/*.c>, <apps/*/*.c>`)

When this option is NOT specified, the filelist is taken from the commandline instead. Here, wildcards may be embedded. (Be sure to escape those to prevent the shell from expanding them for you when you wish `mkerr.pl` to do so instead.)

Default: take file list to scan from the command line.

`-reindex` Discard the numeric values previously assigned to the error and function codes as extracted from the scanned header files; instead renumber all of them starting from 100. (Note that the numbers assigned through 'R' records in the config file remain intact.)

Default: keep previously assigned numbers. (You are warned when collisions are detected.)

`-nostatic` Generates a different source code, where these additional functions are generated for each library specified in the config file:

```
void ERR_load_<LIB>_strings(void);
void ERR_unload_<LIB>_strings(void);
void ERR_<LIB>_error(int f, int r, char *fn, int ln);
#define <LIB>err(f,r) ERR_<LIB>_error(f,r,__FILE__,__LINE__)
```

while the code facilitates the use of these in an environment where the error support routines are dynamically loaded at runtime.

Default: 'static' code generation.

`-staticloader` Prefix generated functions with the 'static' scope modifier.

Default: don't write any scope modifier prefix.

`-write` Actually (over)write the generated code to the header and C source files as assigned to each library through the config file.

Default: don't write.

`-help / -h / -? / --help` Show this help text.

... Additional arguments are added to the file list to scan, assuming '-recurse' was NOT specified on the command line.

EOF

```
exit 1;
} else {
last;
}
}
```

```

if($recurse) {
    @source = ( <crypto/*.c>, <crypto/**/*.c>, <ssl/*.c>,
        <fips/*.c>, <fips/**/*.c>);
} else {
    @source = @ARGV;
}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
    if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
        $hinc{$1} = $2;
        $libinc{$2} = $1;
        $cskip{$3} = $1;
        if($3 ne "NONE") {
            $src{$1} = $3;
            $fmax{$1} = 100;
            $rmax{$1} = 100;
            $fassigned{$1} = ":";
            $rassigned{$1} = ":";
            $fnew{$1} = 0;
            $rnew{$1} = 0;
        }
    } elsif (/^F\s+(\S+)/) {
        # Add extra function with $1
    } elsif (/^R\s+(\S+)\s+(\S+)/) {
        $rextra{$1} = $2;
        $rcodes{$1} = $2;
    }
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) = each %libinc)
{
    next if($hdr eq "NONE");
    print STDERR "Scanning header file $hdr\n" if $debug;
    my $line = "", $def= "", $linenr = 0, $gotfile = 0;
    if (open(IN, "<$hdr")) {

```

```

$gotfile = 1;
while(<IN>) {
$linenr++;
print STDERR "line: $linenr\r" if $debug;

last if(/BEGIN\s+ERROR\s+CODES/);
if ($line ne "") {
    $_ = $line . $_;
    $line = "";
}

if (/\\$/) {
    $line = $_;
    next;
}

if (/^\/) {
    if (not /^*\/) { # multiline comment...
        $line = $_; # ... just accumulate
        next;
    } else {
        s/^*.*?\/*\/gs; # wipe it
    }
}

if ($cpp) {
    $cpp++ if /^#\s*if/;
    $cpp-- if /^#\s*endif/;
    next;
}
$cpp = 1 if /^#\s*ifdef.*cplusplus/; # skip "C" declaration

next if (/^#/);          # skip preprocessor directives

s/{[^{}]*}//gs;        # ignore {} blocks

if (/^{|\/) { # Add a } so editor works...
    $line = $_;
} else {
    $def .= $_;
}
}

print STDERR "          \r" if $debug;
$defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+(\[w,s\]+)/gs;

```

```

foreach (split /;/, $def) {
    $defnr++;
    print STDERR "def: $defnr\r" if $debug;

    # The goal is to collect function names from function declarations.

    s/^\[n\s]*//g;
    s/[n\s]*$/g;

    # Skip over recognized non-function declarations
    next if(/typedefW/ or /DECLARE_STACK_OF/ or /TYPEDEF_*_OF/);

    # Remove STACK_OF(foo)
    s/STACK_OF(\w+)/void/;

    # Reduce argument lists to empty ()
    # fold round brackets recursively: (t(*v)(t),t) -> (t{}{}),t) -> {}
    while(/(\.*/s) {
    s/([^\(\)]+)\{ \} /g;
    s/(\s*\s*\s*(\w+)\s*\{ \} \s*)/$1/g; #(*f{ }) -> f
    }
    # pretend as we didn't use curly braces: {} -> ()
    s/{ \} /()/g;

    if (/(\w+)\s*(\().*/s) { # first token prior [first] () is
    my $name = $1; # a function name!
    $name =~ tr/[a-z]/[A-Z]/;
    $ftrans{$name} = $1;
    } elsif (/[\(\)]/ and not (/=/)) {
    print STDERR "Header $hdr: cannot parse: $_;\n";
    }
    }

    print STDERR "          \r" if $debug;

    next if $reindex;

    # Scan function and reason codes and store them: keep a note of the
    # maximum code used.

    if ($gotfile) {
        while(<IN>) {
            if(/^\#define\s+(\S+)\s+(\S+)/) {
                $name = $1;
                $code = $2;
                next if $name =~ /^${lib}err/;
                unless($name =~ /^${lib}_(RF)]_(\w+)$/) {
                    print STDERR "Invalid error code $name\n";
                }
            }
        }
    }

```

```

next;
}
if($1 eq "R") {
$rcodes{$name} = $code;
if ($rassigned{$lib} =~ /:$code:/) {
print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
++$serrcount;
}
$rassigned{$lib} .= "$code:";
if(!(exists $rextra{$name}) &&
($code > $rmax{$lib})) {
$rmax{$lib} = $code;
}
} else {
if ($fassigned{$lib} =~ /:$code:/) {
print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
++$serrcount;
}
$fassigned{$lib} .= "$code:";
if($code > $fmax{$lib}) {
$fmax{$lib} = $code;
}
}
}
}
}

if ($debug) {
if (defined($fmax{$lib})) {
print STDERR "Max function code fmax" . "{" . "$lib" . "} = $fmax{$lib}\n";
$fassigned{$lib} =~ m/^(.*):$/;
@fassigned = sort {$a <=> $b} split(":", $1);
print STDERR " @fassigned\n";
}
if (defined($rmax{$lib})) {
print STDERR "Max reason code rmax" . "{" . "$lib" . "} = $rmax{$lib}\n";
$rassigned{$lib} =~ m/^(.*):$/;
@rassigned = sort {$a <=> $b} split(":", $1);
print STDERR " @rassigned\n";
}
}

if ($lib eq "SSL") {
if ($rmax{$lib} >= 1000) {
print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
print STDERR "!! Any new alerts must be added to $config.\n";
++$serrcount;
}
}
}

```

```

    print STDERR "\n";
  }
}
close IN;
}

# Scan each C source file and look for function and reason codes
# This is done by looking for strings that "look like" function or
# reason codes: basically anything consisting of all upper case and
# numerics which has _F_ or _R_ in it and which has the name of an
# error library at the start. This seems to work fine except for the
# oddly named structure BIO_F_CTX which needs to be ignored.
# If a code doesn't exist in list compiled from headers then mark it
# with the value "X" as a place holder to give it a value later.
# Store all function and reason codes found in %ufcodes and %urcodes
# so all those unreferenced can be printed out.

foreach $file (@source) {
  # Don't parse the error source file.
  next if exists $cskip{$file};
  print STDERR "File loaded: ".$file."\r" if $debug;
  open(IN, "<$file") || die "Can't open source file $file\n";
  while(<IN>) {
    # skip obsoleted source files entirely!
    last if(/^#error\s+obsolete/);

    if(/([A-Z0-9]+)_F_([A-Z0-9_]+)/) {
      next unless exists $src{$2};
      next if($1 eq "BIO_F_BUFFER_CTX");
      $ufcodes{$1} = 1;
      if(!exists $fcodes{$1}) {
        $fcodes{$1} = "X";
        $fnew{$2}++;
      }
      $notrans{$1} = 1 unless exists $ftrans{$3};
      print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
    }
    if(/([A-Z0-9]+)_R_[A-Z0-9_]+/) {
      next unless exists $src{$2};
      $urcodes{$1} = 1;
      if(!exists $rcodes{$1}) {
        $rcodes{$1} = "X";
        $rnew{$2}++;
      }
      print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
    }
  }
}

```

```

close IN;
}
print STDERR "                \n" if $debug;

# Now process each library in turn.

foreach $lib (keys %csrc)
{
my $hfile = $hinc{$lib};
my $cfile = $csrc{$lib};
if(!$fnew{$lib} && !$rnew{$lib}) {
print STDERR "$lib:\t\tNo new error codes\n";
next unless $rebuild;
} else {
print STDERR "$lib:\t\t$fnew{$lib} New Functions,";
print STDERR " $rnew{$lib} New Reasons.\n";
next unless $dowrite;
}
}

# If we get here then we have some new error codes so we
# need to rebuild the header file and C file.

# Make a sorted list of error and reason codes for later use.

my @function = sort grep(/^${lib}_/,keys %fcodes);
my @reasons = sort grep(/^${lib}_/,keys %rcodes);

# Rewrite the header file

if (open(IN, "<$hfile")) {
# Copy across the old file
while(<IN>) {
push @out, $_;
last if (/BEGIN ERROR CODES/);
}
close IN;
} else {
push @out,
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" *\n",
" *\n",
" *\n",
" *\n",
" *#ifndef HEADER_{lib}_ERR_H\n",
" *#define HEADER_{lib}_ERR_H\n",
" *\n",
" *#ifdef __cplusplus\n",

```



```

"extern \"C\" {\n",
"#endif\n",
"\n",
"/* BEGIN ERROR CODES *\n";
}
open (OUT, ">$hfile") || die "Can't Open File $hfile for writing\n";

print OUT @out;
undef @out;
print OUT <<"EOF";
/* The following lines are auto generated by the script mkerr.pl. Any changes
* made after this point may be overwritten when the script is next run.
*/
EOF
if($static) {
    print OUT <<"EOF";
    ${staticloader}void ERR_load_${lib}_strings(void);

EOF
} else {
    print OUT <<"EOF";
    ${staticloader}void ERR_load_${lib}_strings(void);
    ${staticloader}void ERR_unload_${lib}_strings(void);
    ${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line);
    #define ${lib}err(f,r) ERR_${lib}_error((f),(r),__FILE__,__LINE__)

EOF
}
print OUT <<"EOF";
/* Error codes for the $lib functions. */

/* Function codes. */
EOF

foreach $i (@function) {
    $z=6-int(length($i)/8);
    if($fcodes{$i} eq "X") {
        $fassigned{$lib} =~ m/^(?:[^\:]*)/;
        $findcode = $1;
        if (!defined($findcode)) {
            $findcode = $fmax{$lib};
        }
        while ($fassigned{$lib} =~ m/:$findcode:/) {
            $findcode++;
        }
        $fcodes{$i} = $findcode;
        $fassigned{$lib} .= "$findcode:";
        print STDERR "New Function code $i\n" if $debug;
    }
}

```

```

}
printf OUT "#define $i%s $fcodes{$i}\n", "\t" x $z;
}

print OUT "\n/* Reason codes. *\n";

foreach $i (@reasons) {
    $z=6-int(length($i)/8);
    if($rcodes{$i} eq "X") {
        $rassigned{$lib} =~ m/^([:^:]*):/;
        $findcode = $1;
        if (!defined($findcode)) {
            $findcode = $rmax{$lib};
        }
        while ($rassigned{$lib} =~ m/:$findcode:/) {
            $findcode++;
        }
        $rcodes{$i} = $findcode;
        $rassigned{$lib} .= "$findcode:";
        print STDERR "New Reason code  $i\n" if $debug;
    }
    printf OUT "#define $i%s $rcodes{$i}\n", "\t" x $z;
}
print OUT <<"EOF";

#ifdef __cplusplus
}
#endif
#endif
EOF
close OUT;

# Rewrite the C source file containing the error details.

# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$cfile")) {
    while (<IN>) {
        if (/^b($lib)_R_(w*)\b.*"(.*)"/) {
            $err_reason_strings{$1} = $2;
        }
        if (/^b$lib)_F_(w*)\b.*"(.*)"/) {
            if (!exists $ftrans{$1} && ($1 ne $2)) {
                print STDERR "WARNING: Mismatched function string $2\n";
                $ftrans{$1} = $2;
            }
        }
    }
}
}

```

```

close(IN);
}

my $hincf;
if($static) {
    $hfile =~ /([\^\\]+)$/;
    $hincf = "<${hprefix}$1>";
} else {
    $hincf = "\"$hfile\"";
}

# If static we know the error code at compile time so use it
# in error definitions.

if ($static)
{
    $pack_errcode = "ERR_LIB_${lib}";
    $load_errcode = "0";
}
else
{
    $pack_errcode = "0";
    $load_errcode = "ERR_LIB_${lib}";
}

open (OUT,">$cfile") || die "Can't open $cfile for writing";

print OUT <<"EOF";
/* $cfile */
/* =====
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*/

/* NOTE: this file was auto generated by the mkerr.pl script: any changes
* made to it will be overwritten when the script next updates this file,
* only reason strings will be preserved.
*/

#include <stdio.h>
#include <openssl/err.h>
#include $hincf

/* BEGIN ERROR CODES */
#ifdef OPENSSL_NO_ERR

```

```

#define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

static ERR_STRING_DATA ${lib}_str_funcs[]=
{
EOF
# Add each function code: if a function name is found then use it.
foreach $i (@function) {
my $fn;
$i =~ /^${lib}_F_(\S+)$/;
$fn = $1;
if(exists $ftrans{$fn}) {
$fn = $ftrans{$fn};
}
# print OUT "{ERR_PACK($pack_errcode,$i,0),\t\"$fn\"},\n";
print OUT "{ERR_FUNC($i),\t\"$fn\"},\n";
}
print OUT <<"EOF";
{0,NULL}
};

static ERR_STRING_DATA ${lib}_str_reasons[]=
{
EOF
# Add each reason code.
foreach $i (@reasons) {
my $rn;
my $rstr = "ERR_REASON($i)";
my $nspc = 0;
if (exists $err_reason_strings{$i}) {
$rn = $err_reason_strings{$i};
} else {
$i =~ /^${lib}_R_(\S+)$/;
$rn = $1;
$rn =~ tr/_[A-Z]/ [a-z]/;
}
$nspc = 40 - length($rstr) unless length($rstr) > 40;
$nspc = " " x $nspc;
print OUT "${rstr}${nspc},\"$rn\"},\n";
}
if($static) {
print OUT <<"EOF";
{0,NULL}
};
}

#endif

```

```

${staticloader}void ERR_load_${lib}_strings(void)
{
#ifdef OPENSSSL_NO_ERR

if (ERR_func_error_string(${lib}_str_functs[0].error) == NULL)
{
ERR_load_strings($load_errcode,${lib}_str_functs);
ERR_load_strings($load_errcode,${lib}_str_reasons);
}
#endif
}
EOF
} else {
print OUT <<"EOF";
{0,NULL}
};

#endif

#ifdef ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[]=
{
{0,${lib}_LIB_NAME},
{0,NULL}
};
#endif

static int ${lib}_lib_error_code=0;
static int ${lib}_error_init=1;

${staticloader}void ERR_load_${lib}_strings(void)
{
if (${lib}_lib_error_code == 0)
${lib}_lib_error_code=ERR_get_next_error_library();

if (${lib}_error_init)
{
${lib}_error_init=0;
#ifdef OPENSSSL_NO_ERR
ERR_load_strings(${lib}_lib_error_code,${lib}_str_functs);
ERR_load_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif
}

#ifdef ${lib}_LIB_NAME
${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code,0,0);
ERR_load_strings(0,${lib}_lib_name);
#endif
}

```

```

}
}

${staticloader}void ERR_unload_${lib}_strings(void)
{
if (${lib}_error_init == 0)
{
#ifdef OPENSSSL_NO_ERR
ERR_unload_strings(${lib}_lib_error_code,${lib}_str_funcs);
ERR_unload_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif

#ifdef ${lib}_LIB_NAME
ERR_unload_strings(0,${lib}_lib_name);
#endif
${lib}_error_init=1;
}
}

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
if (${lib}_lib_error_code == 0)
${lib}_lib_error_code=ERR_get_next_error_library();
ERR_PUT_error(${lib}_lib_error_code,function,reason,file,line);
}
EOF

}

close OUT;
undef %err_reason_strings;
}

if($debug && defined(%notrans)) {
print STDERR "The following function codes were not translated:\n";
foreach(sort keys %notrans)
{
print STDERR "$_\n";
}
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
push (@funref, $_) unless exists $ufcodes{$_};
}

foreach (keys %rcodes) {

```

```
push (@runref, $_) unless exists $urcodes{$_};
}
```

```
if($debug && defined(@funref) ) {
print STDERR "The following function codes were not referenced:\n";
foreach(sort @funref)
{
print STDERR "$_\n";
}
}
```

```
if($debug && defined(@runref) ) {
print STDERR "The following reason codes were not referenced:\n";
foreach(sort @runref)
{
print STDERR "$_\n";
}
}
```

```
if($errcount) {
print STDERR "There were errors, failing...\n\n";
exit $errcount;
}
```

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2.0.16/crypto/ui/ui_locl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/mem_clr.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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2.0.16/crypto/uid.c

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/o\_time.h

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2.0.16/fips/utl/fips_mem.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/cmac/cmac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/utl/fips_err.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/cmac/cmac.c

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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/sha/fips\_sha1\_selftest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_rand\_selftest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips\_aes\_selftest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-

2.0.16/fips/des/fips\_des\_selftest.c

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-

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```

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```
#!/usr/bin/env perl
```

```
#
```

```
# =====
```

```
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
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```

```
# =====
```

```
#
```

```
# February 2012
```

```
#
```

```
# The module implements bn_GF2m_mul_2x2 polynomial multiplication
# used in bn_gf2m.c. It's kind of low-hanging mechanical port from
# C for the time being... The subroutine runs in 37 cycles, which is
# 4.5x faster than compiler-generated code. Though comparison is
# totally unfair, because this module utilizes Galois Field Multiply
# instruction.
```

```
while (($output=shift) && ($output!~/^[w\-\]*\.[w+$/)) { }
open STDOUT,">$output";
```

```
($rp,$a1,$a0,$b1,$b0)=("A4","B4","A6","B6","A8"); # argument vector
```

```
($Alo,$Alox0,$Alox1,$Alox2,$Alox3)=map("A$_",(16..20));
```

```
($Ahi,$Ahix0,$Ahix1,$Ahix2,$Ahix3)=map("B$_",(16..20));
```

```
($B_0,$B_1,$B_2,$B_3)=("B5","A5","A7","B7");
```

```
($A,$B)=($Alo,$B_1);
```

```
$xFF="B1";
```

```
sub mul_1x1_upper {
```

```
my ($A,$B)=@_;
```

```
$code.=<<__;
```

```
EXTU $B,8,24,$B_2 ; smash $B to 4 bytes
```

```
|| AND $B,$xFF,$B_0
```

```
|| SHRU $B,24,$B_3
```

```
SHRU $A,16, $Ahi ; smash $A to two halfwords
```

```
|| EXTU $A,16,16,$Alo
```

XORMPY \$Alo,\$B\_2,\$Alox2 ; 16x8 bits multiplication

|| XORMPY \$Ahi,\$B\_2,\$Ahix2

|| EXTU \$B,16,24,\$B\_1

XORMPY \$Alo,\$B\_0,\$Alox0

|| XORMPY \$Ahi,\$B\_0,\$Ahix0

XORMPY \$Alo,\$B\_3,\$Alox3

|| XORMPY \$Ahi,\$B\_3,\$Ahix3

XORMPY \$Alo,\$B\_1,\$Alox1

|| XORMPY \$Ahi,\$B\_1,\$Ahix1

—

}

sub mul\_1x1\_merged {

my (\$OUTlo,\$OUThi,\$A,\$B)=@\_;

\$code.=<<\_\_;

EXTU \$B,8,24,\$B\_2 ; smash \$B to 4 bytes

|| AND \$B,\$xFF,\$B\_0

|| SHRU \$B,24,\$B\_3

SHRU \$A,16, \$Ahi ; smash \$A to two halfwords

|| EXTU \$A,16,16,\$Alo

XOR \$Ahix0,\$Alox2,\$Ahix0

|| MV \$Ahix2,\$OUThi

|| XORMPY \$Alo,\$B\_2,\$Alox2

XORMPY \$Ahi,\$B\_2,\$Ahix2

|| EXTU \$B,16,24,\$B\_1

|| XORMPY \$Alo,\$B\_0,A1 ; \$Alox0

XOR \$Ahix1,\$Alox3,\$Ahix1

|| SHL \$Ahix0,16,\$OUTlo

|| SHRU \$Ahix0,16,\$Ahix0

XOR \$Alox0,\$OUTlo,\$OUTlo

|| XOR \$Ahix0,\$OUThi,\$OUThi

|| XORMPY \$Ahi,\$B\_0,\$Ahix0

|| XORMPY \$Alo,\$B\_3,\$Alox3

|| SHL \$Alox1,8,\$Alox1

|| SHL \$Ahix3,8,\$Ahix3

XOR \$Alox1,\$OUTlo,\$OUTlo

|| XOR \$Ahix3,\$OUThi,\$OUThi

|| XORMPY \$Ahi,\$B\_3,\$Ahix3

|| SHL \$Ahix1,24,\$Alox1

|| SHRU \$Ahix1,8, \$Ahix1

XOR \$Alox1,\$OUTlo,\$OUTlo

|| XOR \$Ahix1,\$OUThi,\$OUThi

|| XORMPY \$Alo,\$B\_1,\$Alox1

|| XORMPY \$Ahi,\$B\_1,\$Ahix1

|| MV A1,\$Alox0

—

}

sub mul\_1x1\_lower {

```

my ($OUTlo,$OUTHi)=@_;
$code.=<<___.
;NOP
XOR $Ahix0,$Alox2,$Ahix0
|| MV $Ahix2,$OUTHi
NOP
XOR $Ahix1,$Alox3,$Ahix1
|| SHL $Ahix0,16,$OUTlo
|| SHRU $Ahix0,16,$Ahix0
XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUTHi,$OUTHi
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUTHi,$OUTHi
|| SHL $Ahix1,24,$Alox1
|| SHRU $Ahix1,8,$Ahix1
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUTHi,$OUTHi

___
}
$code.=<<___.
.text

.global _bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
.asmfunc
MVK 0xFF,$xFF

___
&mul_1x1_upper($a0,$b0); # a0b0
$code.=<<___.
|| MV $b1,$B
MV $a1,$A

___
&mul_1x1_merged("A28","B28",$A,$B); # a0b0/a1b1
$code.=<<___.
|| XOR $b0,$b1,$B
XOR $a0,$a1,$A

___
&mul_1x1_merged("A31","B31",$A,$B); # a1b1/(a0+a1)(b0+b1)
$code.=<<___.
XOR A28,A31,A29
|| XOR B28,B31,B29 ; a0b0+a1b1

___
&mul_1x1_lower("A30","B30"); # (a0+a1)(b0+b1)
$code.=<<___.
|| BNOP B3
XOR A29,A30,A30

```

```
|| XOR B29,B30,B30 ; (a0+a1)(b0+b1)-a0b0-a1b1
XOR B28,A30,A30
|| STW A28,*${rp}[0]
XOR B30,A31,A31
|| STW A30,*${rp}[1]
STW A31,*${rp}[2]
STW B31,*${rp}[3]
.endasmfunc
```

```
print $code;
close STDOUT;
```

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/modes\_lcl.h

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/ec/ec_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa\_x931.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips\_rsavtest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/cmac/fips\_cmactest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/hmac/fips\_hmactest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips\_rsastest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa\_pss.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_x931p.c

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#!/usr/bin/env perl

#

# =====

# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL  
# project. The module is, however, dual licensed under OpenSSL and  
# CRYPTOGAMS licenses depending on where you obtain it. For further  
# details see <http://www.openssl.org/~appro/cryptogams/>.

# =====

#

# SHA512 for C64x+.

#

# January 2012

```

#
# Performance is 19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve it and for own well-being
# zero it upon entry.

while (($output=shift) && ($output!~/\w[\w-]*\.\w+$/)) { }
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");      # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi,   $T2hi)=      ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5"); # circular/ring buffer

$code.=<<<___.text

.asg B3,RA
.asg A15,FP
.asg B15,SP

.if .BIG_ENDIAN
.asg $Khi,KHI
.asg $Klo,KLO
.else
.asg $Khi,KLO
.asg $Klo,KHI
.endif

```

```

.global _sha512_block_data_order
_sha512_block_data_order:
.asmfunc stack_usage(40+128)
MV $NUM,A0 ;reassign $NUM
|| MVK -128,B0
[!A0] BNOP RA ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40) ; save frame pointer
|| [A0] MV SP,FP
[A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
[A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
[A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR ; setup circular addressing
|| [A0] ADD B0,SP,SP ; alloca(128)
[A0] AND B0,SP,SP ; align stack at 128 bytes
|| [A0] ADDKPC _sha512_block_data_order,B1
|| [A0] MVKL (K512-_sha512_block_data_order),$K512
[A0] MVKH (K512-_sha512_block_data_order),$K512
|| [A0] SUBAW SP,2,SP ; reserve two words above buffer
ADDAW SP,3,$Xilo
ADDAW SP,2,$Xihi

|| MV $CTXA,$CTXB
LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo
LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo

LDNDW *$INP++,B11:B10 ; pre-fetch input
LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[0]
outerloop?:
MVK 15,B0 ; loop counters

```

```

|| MVK 64,B1
|| SUB A0,1,A0
MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo
loop0_15?:
.if .BIG_ENDIAN
MV B11,$T1hi
|| MV B10,$T1lo
.else
SWAP4 B10,$T1hi
|| SWAP4 B11,$T1lo
SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
.endif
loop16_79?:
STW $T1hi,*$Xihi++[2]
|| STW $T1lo,*$Xilo++[2] ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
XOR $Fhi,$Ghi,$CHhi
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]
|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo ; h = g
|| SHRU $Ehi,18,$t0hi

```



```

|| SHL $Ehi,32-18,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo ; Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
|| ROTL $Flo,0,$Glo ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo ; f = e
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi
|| ROTL $Dlo,0,$Elo ; e = d
|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo ; d = c
|| SHRU $Ahi,28,$S0hi
|| SHL $Ahi,32-28,$S0lo
OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo ; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi
|| ROTL $Blo,0,$Clo ; c = b
|| SHRU $Alo,28,$t0lo
|| SHL $Alo,32-28,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $Alo,0,$Blo ; b = a
|| SHRU $Ahi,34-32,$t0lo

```

```

|| SHL $Ahi,64-34,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ; T2 = T1+Maj(a,b,c)
|| SHRU $Alo,34-32,$t0hi
|| SHL $Alo,64-34,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| [B0] BNOP loop0_15?
|| SHRU $Ahi,39-32,$t0lo
|| SHL $Ahi,64-39,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| [B0] LDNDW *$INP++,B11:B10 ; pre-fetch input
||[!B1] BNOP break?
|| SHRU $Alo,39-32,$t0hi
|| SHL $Alo,64-39,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo ; Sigma0(a)
|| ADD $T1carry,$T1hi,$Ehi
|| MV $T1lo,$Elo ; e = T1
||[!B0] LDW *${Xihi}[28],$T1hi
||[!B0] LDW *${Xilo}[28],$T1lo ; X[i+14]
ADD $S0hi,$T2hi,$T2hi
|| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
|| [B1] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[i]
NOP ; avoid cross-path stall
ADD $T2carry,$T2hi,$Ahi
|| MV $T2lo,$Alo ; a = T2
|| [B0] SUB B0,1,B0
;===== branch to loop00_15? is taken here
NOP
;===== branch to break? is taken here
LDW *${Xihi}[2],$T2hi
|| LDW *${Xilo}[2],$T2lo ; X[i+1]
|| SHRU $T1hi,19,$S1hi
|| SHL $T1hi,32-19,$S1lo
SHRU $T1lo,19,$t0lo
|| SHL $T1lo,32-19,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,61-32,$t0lo
|| SHL $T1hi,64-61,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo

```

```

|| SHRU $T1lo,61-32,$t0hi
|| SHL $T1lo,64-61,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,6,$t0hi
|| SHL $T1hi,32-6,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,6,$t0lo
|| LDW *${Xihi}[18],$T1hi
|| LDW *${Xilo}[18],$T1lo ; X[i+9]
XOR $t0lo,$S1lo,$S1lo ; sigma1(Xi[i+14])

```

```

|| LDW *${Xihi}[0],$CHhi
|| LDW *${Xilo}[0],$CHlo ; X[i]
|| SHRU $T2hi,1,$S0hi
|| SHL $T2hi,32-1,$S0lo
SHRU $T2lo,1,$t0lo
|| SHL $T2lo,32-1,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo ; T1 = X[i+9]+sigma1()
|| [B1] BNOP loop16_79?
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
XOR $t0lo,$S0lo,$S0lo ; sigma0(Xi[i+1])

```

```

ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
NOP ; avoid cross-path stall
ADD $T1carry,$T1hi,$T1hi
;===== branch to loop16_79? is taken here

```

```

break?:
  ADD $Ahi,$Actxhi,$Ahi ; accumulate ctx
  || ADDU $Alo,$Actxlo,$Actxlo:$Alo
  || [A0] LDNDW *$INP++,B11:B10 ; pre-fetch input
  || [A0] ADDK -640,$K512 ; rewind pointer to K512
  ADD $Bhi,$Bctxhi,$Bhi
  || ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
  || [A0] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[0]
  ADD $Chi,$Cctxhi,$Chi
  || ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
  || ADD $Actxlo,$Ahi,$Ahi
  ||[!A0] MV $CTXA,$CTXB
  ADD $Dhi,$Dctxhi,$Dhi
  || ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
  || ADD $Bctxlo,$Bhi,$Bhi
  ||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ; save ctx
  ||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
  ADD $Ehi,$Ectxhi,$Ehi
  || ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
  || ADD $Cctxlo,$Chi,$Chi
  || [A0] BNOP outerloop?
  ||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
  ||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]
  ADD $Fhi,$Fctxhi,$Fhi
  || ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
  || ADD $Dctxlo,$Dhi,$Dhi
  ||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
  ||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
  ADD $Ghi,$Gctxhi,$Ghi
  || ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
  || ADD $Ectxlo,$Ehi,$Ehi
  ||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
  ||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
  ADD $Hhi,$Hctxhi,$Hhi
  || ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
  || ADD $Fctxlo,$Fhi,$Fhi
  ||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
  ||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
  ADD $Gctxlo,$Ghi,$Ghi
  ||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
  ||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
  ADD $Hctxlo,$Hhi,$Hhi
  ||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
  ||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
  ;;===== branch to outerloop? is taken here

  STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
  || STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]

```

```

|| MVK -40,B0
ADD FP,B0,SP ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
LDDW *SP[4],B13:B12
|| BNOP RA
LDW *++SP(40),FP ; restore frame pointer
MVK 0,B0
MVC B0,AMR ; clear AMR
NOP 2 ; wait till FP is committed
.endasmfunc

```

```
.sect ".const:sha_asm"
```

```
.align 128
```

```
K512:
```

```

.uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
.uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
.uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
.uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
.uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
.uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
.uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
.uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
.uword 0x0fc19dc6,0x8b8cd5b5, 0x240ca1cc,0x77ac9c65
.uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
.uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
.uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
.uword 0xb00327c8,0x98fb213f, 0xbf597fc7,0xbeef0ee4
.uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
.uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70
.uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
.uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
.uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
.uword 0x81c2c92e,0x47edaae6, 0x92722c85,0x1482353b
.uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
.uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
.uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
.uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bbd1b8
.uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
.uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
.uword 0x391c0cb3,0xc5c95a63, 0x4ed8aa4a,0xe3418acb
.uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
.uword 0x748f82ee,0x5defb2fc, 0x78a5636f,0x43172f60
.uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
.uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
.uword 0xbfef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b

```

```
.uword 0xca273ece,0xea26619c, 0xd186b8c7,0x21c0c207
.uword 0xeada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
.uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493
.uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
.uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x+, CRYPTOGRAMS by <appro@openssl.org>"
.align 4
```

```
print $code;
close STDOUT;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-c64xplus.pl
```

No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/env perl
```

```
#
```

```
# =====
```

```
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptograms/.
```

```
# =====
```

```
#
```

```
# SHA1 for C64x.
```

```
#
```

```
# November 2016
```

```
#
```

```
# This is fully-unrolled SHA1 implementation. It's 25% faster than
# one with compact loops, doesn't use in-memory ring buffer, as
# everything is accomodated in registers, and has "perfect" interrupt
# agility. Drawback is obviously the code size...
```

```
while (($output=shift) && ($output!~/\w[\w-]*\.\w+$/)) { }
open STDOUT,">$output";
```

```
($CTX,$INP,$NUM) = ("A4","B4","A6"); # arguments
```

```
($A,$B,$C,$D,$E, $Arot,$F,$F0,$K) = map("A$_",(16..20, 21..24));
```

```
@V = ($A,$B,$C,$D,$E);
```

```
@X = map("B$_",(16..31));
```

```
($Actx,$Bctx,$Cctx,$Dctx,$Ectx) = map("A$_",(3,6..9)); # zaps $NUM
```

```

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

$code.=<<____ if ($i<14);
  ROTL $a,5,$Arot ;; $i
  || AND $c,$b,$F
  || ANDN $d,$b,$F0
  || ADD $K,$e,$e ; E+=K
  || LDNW *${INP}++,@X[$i+2]
  OR $F0,$F,$F ; F_00_19(B,C,D)
  || ROTL $b,30,$b
  || SWAP2 @X[$i+1],@X[$i+1]
  || ADD @X[$i],$e,$e ; E+=X[i]
  ADD $Arot,$e,$e ; E+=rot(A,5)
  || SWAP4 @X[$i+1],@X[$i+1]
  ADD $F,$e,$e ; E+=F_00_19(B,C,D)

____
$code.=<<____ if ($i==14);
  ROTL $a,5,$Arot ;; $i
  || AND $c,$b,$F
  || ANDN $d,$b,$F0
  || ADD $K,$e,$e ; E+=K
  OR $F0,$F,$F ; F_00_19(B,C,D)
  || ROTL $b,30,$b
  || ADD @X[$i],$e,$e ; E+=X[i]
  || SWAP2 @X[$i+1],@X[$i+1]
  ADD $Arot,$e,$e ; E+=rot(A,5)
  || SWAP4 @X[$i+1],@X[$i+1]
  ADD $F,$e,$e ; E+=F_00_19(B,C,D)

____
$code.=<<____ if ($i==15);
  || XOR @X[($j+2)&15],@X[$j],@X[$j]
  ROTL $a,5,$Arot ;; $i
  || AND $c,$b,$F
  || ANDN $d,$b,$F0
  || ADD $K,$e,$e ; E+=K
  || XOR @X[($j+8)&15],@X[$j],@X[$j]
  OR $F0,$F,$F ; F_00_19(B,C,D)
  || ROTL $b,30,$b
  || ADD @X[$i],$e,$e ; E+=X[i]
  || XOR @X[($j+13)&15],@X[$j],@X[$j]
  ADD $Arot,$e,$e ; E+=rot(A,5)
  || ROTL @X[$j],1,@X[$j]
  ADD $F,$e,$e ; E+=F_00_19(B,C,D)

____
$code.=<<____ if ($i>15);
  || XOR @X[($j+2)&15],@X[$j],@X[$j]

```

```

ROTL $a,5,$Arot ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e ; E+=K
|| XOR @X[$j+8]&15,@X[$j],@X[$j]
OR $F0,$F,$F ; F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e ; E+=X[i]
|| XOR @X[$j+13]&15,@X[$j],@X[$j]
ADD $Arot,$e,$e ; E+=rot(A,5)
|| ROTL @X[$j],1,@X[$j]
ADD $F,$e,$e ; E+=F_00_19(B,C,D)
—
}

```

```

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

```

```

$code.=<<__ if ($i<79);
|| XOR @X[$j+2]&15,@X[$j],@X[$j]
ROTL $a,5,$Arot ;; $i
|| XOR $c,$b,$F
|| ADD $K,$e,$e ; E+=K
|| XOR @X[$j+8]&15,@X[$j],@X[$j]
XOR $d,$F,$F ; F_20_39(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e ; E+=X[i]
|| XOR @X[$j+13]&15,@X[$j],@X[$j]
ADD $Arot,$e,$e ; E+=rot(A,5)
|| ROTL @X[$j],1,@X[$j]
ADD $F,$e,$e ; E+=F_20_39(B,C,D)
—

```

```

$code.=<<__ if ($i==79);
|| [A0] B loop?
|| [A0] LDNW *${INP}++,@X[0] ; pre-fetch input
ROTL $a,5,$Arot ;; $i
|| XOR $c,$b,$F
|| ADD $K,$e,$e ; E+=K
|| [A0] LDNW *${INP}++,@X[1]
XOR $d,$F,$F ; F_20_39(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e ; E+=X[i]
ADD $Arot,$e,$e ; E+=rot(A,5)
ADD $F,$e,$e ; E+=F_20_39(B,C,D)
|| ADD $Bctx,$a,$a ; accumulate context
|| ADD $Cctx,$b,$b
ADD $Dctx,$c,$c

```



```

|| ADD $Ectx,$d,$d
|| ADD $Actx,$e,$e
;;===== branch to loop? is taken here
____
}

```

```

sub BODY_40_59 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

```

```

$code.=<<____;
|| XOR @X[($j+2)&15],@X[$j],@X[$j]
  ROTL $a,5,$Arot ;; $i
|| AND $c,$b,$F
|| AND $d,$b,$F0
|| ADD $K,$e,$e ; E+=K
|| XOR @X[($j+8)&15],@X[$j],@X[$j]
  XOR $F0,$F,$F
|| AND $c,$d,$F0
|| ROTL $b,30,$b
|| XOR @X[($j+13)&15],@X[$j],@X[$j]
|| ADD @X[$i&15],$e,$e ; E+=X[i]
  XOR $F0,$F,$F ; F_40_59(B,C,D)
|| ADD $Arot,$e,$e ; E+=rot(A,5)
|| ROTL @X[$j],1,@X[$j]
  ADD $F,$e,$e ; E+=F_20_39(B,C,D)
____
}

```

```

$code=<<<____;

```

```

.text

```

```

.if .ASSEMBLER_VERSION<7000000

```

```

.asg 0,__TI_EABI__

```

```

.endif

```

```

.if __TI_EABI__

```

```

.asg sha1_block_data_order,_sha1_block_data_order

```

```

.endif

```

```

.asg B3,RA

```

```

.asg A15,FP

```

```

.asg B15,SP

```

```

.if .BIG_ENDIAN

```

```

.asg MV,SWAP2

```

```

.asg MV,SWAP4

```

```

.endif

```

```

.global _sha1_block_data_order
_sha1_block_data_order:
.asmfunc
MV $NUM,A0 ; reassign $NUM
[!A0] BNOP RA ; if ($NUM==0) return;
|| [A0] LDW *${CTX}[0],$A ; load A-E...
[A0] LDW *${CTX}[1],$B
[A0] LDW *${CTX}[2],$C
[A0] LDW *${CTX}[3],$D
[A0] LDW *${CTX}[4],$E
[A0] LDNW *${INP}++,@X[0] ; pre-fetch input
[A0] LDNW *${INP}++,@X[1]
NOP 3

loop?:
SUB A0,1,A0
|| MV $A,$Actx
|| MVD $B,$Bctx
|| SWAP2 @X[0],@X[0]
|| MVKL 0x5a827999,$K
MVKH 0x5a827999,$K ; K_00_19
|| MV $C,$Cctx
|| MV $D,$Dctx
|| MVD $E,$Ectx
|| SWAP4 @X[0],@X[0]

—
for ($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0x6ed9eba1,$K
MVKH 0x6ed9eba1,$K ; K_20_39

—
for (;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0x8f1bbcdc,$K
MVKH 0x8f1bbcdc,$K ; K_40_59

—
for (;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0xca62c1d6,$K
MVKH 0xca62c1d6,$K ; K_60_79

—
for (;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
BNOP RA ; return
STW $A,*${CTX}[0] ; emit A-E...
STW $B,*${CTX}[1]
STW $C,*${CTX}[2]
STW $D,*${CTX}[3]

```

```

STW $E,*${CTX}[4]
.endasmfunc

.sect .const
.cstring "SHA1 block transform for C64x, CRYPTOGRAMS by <appro\@openssl.org>"
.align 4

```

```

print $code;
close STDOUT;

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64x-large.pl

```

No license file was found, but licenses were detected in source scan.

```

#!/usr/bin/env perl
# Copyright 2016 The OpenSSL Project Authors. All Rights Reserved.
#
# Licensed under the OpenSSL license (the "License"). You may not use
# this file except in compliance with the License. You can obtain a copy
# in the file LICENSE in the source distribution or at
# https://www.openssl.org/source/license.html

```

```

while (($output=shift) && ($output!~/\w[\w-]*\.\w+$/)) { }
open STDOUT,">$output";

```

```

$code.=<<<___;

```

```

.text

```

```

.if .ASSEMBLER_VERSION<7000000
.asg 0,__TI_EABI__
.endif
.if __TI_EABI__
.asg OPENSSSL_rdtsc,_OPENSSSL_rdtsc
.asg OPENSSSL_cleanse,_OPENSSSL_cleanse
.asg CRYPTO_memcmp,_CRYPTO_memcmp
.asg OPENSSSL_atomic_add,_OPENSSSL_atomic_add
.asg OPENSSSL_wipe_cpu,_OPENSSSL_wipe_cpu
.asg OPENSSSL_instrument_bus,_OPENSSSL_instrument_bus
.asg OPENSSSL_instrument_bus2,_OPENSSSL_instrument_bus2
.endif

```

```

.asg B3,RA
.asg 0x01AC0000,TIMER_BASE ; Timer 2

```

```

.global _OPENSSSL_rdtsc
_OPENSSSL_rdtsc:

```

```

.asmfunc
MVKL TIMER_BASE,A5
MVKH TIMER_BASE,A5
LDW *A5[0],A2 ; load CTL
LDW *A5[2],A4 ; load CTN
NOP 2
.if .BIG_ENDIAN
MVK 0x2c0,A7 ; internal clock source, don't hold, go
|| MVK -1,A6 ; maximum period
.else
MVK 0x2c0,A6 ; internal clock source, don't hold, go
|| MVK -1,A7 ; maximum period
.endif
[!A2] STDW A7:A6,*A5[0] ; fire it up
|| BNOP RA,5
.endasmfunc

```

```

.global _OPENSSL_cleanse
_OPENSSL_cleanse:
.asmfunc
ZERO A3:A2
|| ZERO B2
|| SHRU B4,3,B0 ; is length >= 8
|| ADD 1,A4,B6
[!B0] BNOP RA
|| [B0] SUB B0,1,B2
|| ZERO A1
|| ZERO B1
[B2] BDEC cleanse_loop?,B2
|[!B0] CMPLT 0,B4,A1
|[!B0] CMPLT 1,B4,B1
|| ZERO B5
[A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
|[!B0] CMPLT 2,B4,A1
|[!B0] CMPLT 3,B4,B1
[A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
|[!B0] CMPLT 4,B4,A1
|[!B0] CMPLT 5,B4,B1
[A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
|[!B0] CMPLT 6,B4,A1
[A1] STB A2,*A4++[2]
|| [B2] BDEC cleanse_loop?,B2

```

```

cleanse_loop?:
    STNDW A3:A2,*A4++
    || SUB B4,8,B4
    || [B2] BDEC cleanse_loop?,B2

    MV B4,B0 ; remaining bytes
    || ADD 1,A4,B6
    || BNOP RA
    [B0] CMPLT 0,B0,A1
    || [B0] CMPLT 1,B0,B1
    [A1] STB A2,*A4++[2]
    || [B1] STB B5,*B6++[2]
    || [B0] CMPLT 2,B0,A1
    || [B0] CMPLT 3,B0,B1
    [A1] STB A2,*A4++[2]
    || [B1] STB B5,*B6++[2]
    || [B0] CMPLT 4,B0,A1
    || [B0] CMPLT 5,B0,B1
    [A1] STB A2,*A4++[2]
    || [B1] STB B5,*B6++[2]
    || [B0] CMPLT 6,B0,A1
    [A1] STB A2,*A4++[2]
.endasmfunc

.if 0
.global _CRYPTO_memcmp
_CRYPTO_memcmp:
.asmfunc
MV A6,B0
[!B0] BNOP RA
|[!B0] ZERO A4
|| [B0] ZERO A1:A0
[B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
[B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
[B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
[B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
[B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0

```

```
XOR A5,B5,A1
|| [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
```

```
memcmp_loop?:
OR A1,A0,A0
|| XOR A5,B5,A1
|| [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
```

```
BNOP RA,3
ZERO A4
[A0] MVK 1,A4
.endasmfunc
.endif
```

```
.global _OPENSSL_atomic_add
_OPENSSL_atomic_add:
.asmfunc
BNOP atomic_store? ; pre-C64x+ systems are uni-processor, it's
|| LDW *A4,B5 ; enough to hold interrupts off through
; the load-update-store cycle to achieve
; atomicity
NOP
BNOP RA,3 ; and this branch stretches even over store
ADD B4,B5,B5
atomic_store?:
STW B5,*A4
|| MV B5,A4
.endasmfunc
```

```
.global _OPENSSL_wipe_cpu
_OPENSSL_wipe_cpu:
.asmfunc
ZERO A0
|| ZERO B0
|| ZERO A1
|| ZERO B1
ZERO A3:A2
|| MVD B0,B2
|| ZERO A4
|| ZERO B4
|| ZERO A5
|| ZERO B5
|| BNOP RA
ZERO A7:A6
```

```

|| ZERO B7:B6
|| ZERO A8
|| ZERO B8
|| ZERO A9
|| ZERO B9
ZERO A17:A16
|| ZERO B17:B16
|| ZERO A18
|| ZERO B18
|| ZERO A19
|| ZERO B19
ZERO A21:A20
|| ZERO B21:B20
|| ZERO A22
|| ZERO B22
|| ZERO A23
|| ZERO B23
ZERO A25:A24
|| ZERO B25:B24
|| ZERO A26
|| ZERO B26
|| ZERO A27
|| ZERO B27
ZERO A29:A28
|| ZERO B29:B28
|| ZERO A30
|| ZERO B30
|| ZERO A31
|| ZERO B31
.endasmfunc

```

```

CLFLUSH .macro CONTROL,ADDR,LEN

```

```

    B passthrough?

```

```

|| STW ADDR,*CONTROL[0]

```

```

    STW LEN,*CONTROL[1]

```

```

spinlock?:

```

```

    LDW *CONTROL[1],A0

```

```

    NOP 3

```

```

passthrough?:

```

```

    NOP

```

```

[A0] BNOP spinlock?,5

```

```

.endm

```

```

.global _OPENSSL_instrument_bus

```

```

_OPENSSL_instrument_bus:

```

```

.asmfunc

```

```

MV B4,B0 ; reassign sizeof(output)

```

```

|| MV A4,B4 ; reassign output

```

```

|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
MV B0,A4 ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3 ; L1DWIBAR
|| MVKH TIMER_BASE,B16
LDW *B16[2],B8 ; collect 1st tick
|| MVK 0x00004010,A5
NOP 4
MV B8,B9 ; lasttick = tick
|| MVK 0,B7 ; lastdiff = 0
|| MVKH 0x01840000,A5 ; L2WIBAR
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4
bus_loop1?:
LDW *B16[2],B8
|| [B0] SUB B0,1,B0
NOP 4
SUB B8,B9,B7 ; lastdiff = tick - lasttick
|| MV B8,B9 ; lasttick = tick
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4 ; [!B1] is removed to flatten samples
|| ADDK 4,B4
|| [B0] BNOP bus_loop1?,5

```

```

BNOP RA,5
.endasmfunc

```

```

.global _OPENSSL_instrument_bus2
_OPENSSL_instrument_bus2:
.asmfunc
MV A6,B0 ; reassign max
|| MV B4,A6 ; reassing sizeof(output)
|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
MV A4,B4 ; reassign output
|| MVK 0,A4 ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3 ; L1DWIBAR
|| MVKH TIMER_BASE,B16

```



```

LDW *B16[2],B8 ; collect 1st tick
|| MVK 0x00004010,A5
NOP 4
MV B8,B9 ; lasttick = tick
|| MVK 0,B7 ; lastdiff = 0
|| MVKH 0x01840000,A5 ; L2WIBAR
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4

```

```

LDW *B16[2],B8 ; collect 1st diff
NOP 4
SUB B8,B9,B7 ; lastdiff = tick - lasttick
|| MV B8,B9 ; lasttick = tick
|| SUB B0,1,B0
bus_loop2?:
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4 ; [!B1] is removed to flatten samples
||[!B0] BNOP bus_loop2_done?,2
|| SUB B0,1,B0
LDW *B16[2],B8
NOP 4
SUB B8,B9,B8
|| MV B8,B9
CMPEQ B8,B7,B2
|| MV B8,B7
[!B2] ADDAW B4,1,B4
||[!B2] ADDK 1,A4
CMPEQ A4,A6,A2
[!A2] BNOP bus_loop2?,5

```

```

bus_loop2_done?:
BNOP RA,5
.endasmfunc

```

```

.if __TI_EABI__
.sect ".init_array"
.else
.sect ".pinit"
.endif

```

```
.align 4
.long _OPENSSL_rdtsc ; auto-start timer
```

```
print $code;
close STDOUT;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/c64xcpuid.pl
```

No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/env perl
```

```
#
```

```
# =====
```

```
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
```

```
# =====
```

```
#
```

```
# GHASH for for PowerISA v2.07.
```

```
#
```

```
# July 2014
```

```
#
```

```
# Accurate performance measurements are problematic, because it's
# always virtualized setup with possibly throttled processor.
```

```
# Relative comparison is therefore more informative. This initial
# version is ~2.1x slower than hardware-assisted AES-128-CTR, ~12x
# faster than "4-bit" integer-only compiler-generated 64-bit code.
# "Initial version" means that there is room for futher improvement.
```

```
# May 2016
```

```
#
```

```
# 2x aggregated reduction improves performance by 50% (resulting
# performance on POWER8 is 1 cycle per processed byte), and 4x
# aggregated reduction - by 170% or 2.7x (resulting in 0.55 cpb).
```

```
$flavour=shift;
```

```
$output =shift;
```

```
if ($flavour =~ /64/) {
```

```
    $SIZE_T=8;
```

```
    $LRSIZE=2*$SIZE_T;
```

```
    $STU="stdu";
```

```
    $POP="ld";
```

```
    $PUSH="std";
```

```
    $UCMP="cmpld";
```

```

$SHRI="srdi";
} elsif ($flavour =~ /32/) {
$SIZE_T=4;
$LRSAVE=$SIZE_T;
$STU="stwu";
$POP="lwz";
$PUSH="stw";
$UCMP="cmplw";
$SHRI="srwi";
} else { die "nonsense $flavour"; }

$sp="r1";
$FRAME=6*$SIZE_T+13*16; # 13*16 is for v20-v31 offload

$0 =~ m/(.*[\\])[^\\]+$/; $dir=$1;
( $xlate="$dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="$dir}../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour $output" || die "can't call $xlate: $!";

my ($Xip,$Htbl,$Inp,$len)=map("r$_",(3..6)); # argument block

my ($Xl,$Xm,$Xh,$IN)=map("v$_",(0..3));
my ($zero,$t0,$t1,$t2,$xC2,$H,$Hh,$HI,$lemask)=map("v$_",(4..12));
my ($Xl1,$Xm1,$Xh1,$IN1,$H2,$H2h,$H2l)=map("v$_",(13..19));
my $vrsave="r12";

$code=<<__;
.machine "any"

.text

.globl .gcm_init_p8
.align 5
.gcm_init_p8:
li r0,-4096
li r8,0x10
mfspr $vrsave,256
li r9,0x20
mtspr 256,r0
li r10,0x30
lvx_u $H,0,r4 # load H

vspltisb $xC2,-16 # 0xf0
vspltisb $t0,1 # one
vaddubm $xC2,$xC2,$xC2 # 0xe0
vxor $zero,$zero,$zero

```

```

vor $xC2,$xC2,$t0 # 0xe1
vsldoi $xC2,$xC2,$zero,15 # 0xe1...
vsldoi $t1,$zero,$t0,1 # ...1
vaddubm $xC2,$xC2,$xC2 # 0xc2...
vspltsb $t2,7
vor $xC2,$xC2,$t1 # 0xc2....01
vspltb $t1,$H,0 # most significant byte
vsl $H,$H,$t0 # H<<=1
vsrab $t1,$t1,$t2 # broadcast carry bit
vand $t1,$t1,$xC2
vxor $IN,$H,$t1 # twisted H

vsldoi $H,$IN,$IN,8 # twist even more ...
vsldoi $xC2,$zero,$xC2,8 # 0xc2.0
vsldoi $Hl,$zero,$H,8 # ... and split
vsldoi $Hh,$H,$zero,8

stvx_u $xC2,0,r3 # save pre-computed table
stvx_u $Hl,r8,r3
li r8,0x40
stvx_u $H, r9,r3
li r9,0x50
stvx_u $Hh,r10,r3
li r10,0x60

vpmsumd $Xl,$IN,$Hl # H.loH.lo
vpmsumd $Xm,$IN,$H # H.hiH.lo+H.loH.hi
vpmsumd $Xh,$IN,$Hh # H.hiH.hi

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

vsldoi $Xl,$Xl,$Xl,8
vxor $Xl,$Xl,$t2

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vxor $t1,$t1,$Xh
vxor $IN1,$Xl,$t1

vsldoi $H2,$IN1,$IN1,8
vsldoi $H2l,$zero,$H2,8
vsldoi $H2h,$H2,$zero,8

```

```

stvx_u $H2l,r8,r3 # save H^2
li r8,0x70
stvx_u $H2,r9,r3
li r9,0x80
stvx_u $H2h,r10,r3
li r10,0x90

_____
{
my ($t4,$t5,$t6) = ($Hl,$H,$Hh);
$code.=<<____;
vpmsumd $Xl,$IN,$H2l # H.loH^2.lo
vpmsumd $Xl1,$IN1,$H2l # H^2.loH^2.lo
vpmsumd $Xm,$IN,$H2 # H.hiH^2.lo+H.loH^2.hi
vpmsumd $Xm1,$IN1,$H2 # H^2.hiH^2.lo+H^2.loH^2.hi
vpmsumd $Xh,$IN,$H2h # H.hiH^2.hi
vpmsumd $Xh1,$IN1,$H2h # H^2.hiH^2.hi

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase
vpmsumd $t6,$Xl1,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vsldoi $t4,$Xm1,$zero,8
vsldoi $t5,$zero,$Xm1,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1
vxor $Xl1,$Xl1,$t4
vxor $Xh1,$Xh1,$t5

vsldoi $Xl,$Xl,$Xl,8
vsldoi $Xl1,$Xl1,$Xl1,8
vxor $Xl,$Xl,$t2
vxor $Xl1,$Xl1,$t6

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vsldoi $t5,$Xl1,$Xl1,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vpmsumd $Xl1,$Xl1,$xC2
vxor $t1,$t1,$Xh
vxor $t5,$t5,$Xh1
vxor $Xl,$Xl,$t1
vxor $Xl1,$Xl1,$t5

vsldoi $H,$Xl,$Xl,8
vsldoi $H2,$Xl1,$Xl1,8
vsldoi $Hl,$zero,$H,8
vsldoi $Hh,$H,$zero,8
vsldoi $H2l,$zero,$H2,8

```

```

vsldoi $H2h,$H2,$zero,8

stvx_u $Hl,r8,r3 # save H^3
li r8,0xa0
stvx_u $H,r9,r3
li r9,0xb0
stvx_u $Hh,r10,r3
li r10,0xc0
stvx_u $H2l,r8,r3 # save H^4
stvx_u $H2,r9,r3
stvx_u $H2h,r10,r3

mfspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .gcm_init_p8,-.gcm_init_p8
___
}
$code.=<<<___;
.globl .gcm_gmult_p8
.align 5
.gcm_gmult_p8:
lis r0,0xffff8
li r8,0x10
mfspr $vrsave,256
li r9,0x20
mfspr 256,r0
li r10,0x30
lvx_u $IN,0,$Xip # load Xi

lvx_u $Hl,r8,$Htbl # load pre-computed table
le?lvs1 $lemask,r0,r0
lvx_u $H,r9,$Htbl
le?vspltisb $t0,0x07
lvx_u $Hh,r10,$Htbl
le?vxor $lemask,$lemask,$t0
lvx_u $xC2,0,$Htbl
le?vperm $IN,$IN,$IN,$lemask
vxor $zero,$zero,$zero

vpmsumd $Xl,$IN,$Hl # H.loXi.lo
vpmsumd $Xm,$IN,$H # H.hiXi.lo+H.loXi.hi
vpmsumd $Xh,$IN,$Hh # H.hiXi.hi

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase

```

```

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

vsldoi $Xl,$Xl,$Xl,8
vxor $Xl,$Xl,$t2

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vxor $t1,$t1,$Xh
vxor $Xl,$Xl,$t1

le?vperm $Xl,$Xl,$Xl,$lemask
stvx_u $Xl,0,$Xip # write out Xi

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .gcm_gmult_p8,-.gcm_gmult_p8

.globl .gcm_ghash_p8
.align 5
.gcm_ghash_p8:
li r0,-4096
li r8,0x10
mfspr $vrsave,256
li r9,0x20
mtspr 256,r0
li r10,0x30
lvx_u $Xl,0,$Xip # load Xi

lvx_u $Hl,r8,$Htbl # load pre-computed table
li r8,0x40
le?lvsl $lemask,r0,r0
lvx_u $H, r9,$Htbl
li r9,0x50
le?vspltsb $t0,0x07
lvx_u $Hh,r10,$Htbl
li r10,0x60
le?vxor $lemask,$lemask,$t0
lvx_u $xC2,0,$Htbl
le?vperm $Xl,$Xl,$Xl,$lemask
vxor $zero,$zero,$zero

${UCMP}i $len,64

```

bge Lgcm\_ghash\_p8\_4x

```
lvx_u $IN,0,$inp
addi $inp,$inp,16
subic $len,$len,16
le?vperm $IN,$IN,$IN,$lemask
vxor $IN,$IN,$X1
beq Lshort
```

```
lvx_u $H2l,r8,$Htbl # load H^2
li r8,16
lvx_u $H2, r9,$Htbl
add r9,$inp,$len # end of input
lvx_u $H2h,r10,$Htbl
be?b Loop_2x
```

.align 5

Loop\_2x:

```
lvx_u $IN1,0,$inp
le?vperm $IN1,$IN1,$IN1,$lemask
```

```
subic $len,$len,32
vpmsumd $X1,$IN,$H2l # H^2.loXi.lo
vpmsumd $X1l,$IN1,$H1 # H.loXi+1.lo
subfe r0,r0,r0 # borrow?-1:0
vpmsumd $Xm,$IN,$H2 # H^2.hiXi.lo+H^2.loXi.hi
vpmsumd $Xm1,$IN1,$H # H.hiXi+1.lo+H.loXi+1.hi
and r0,r0,$len
vpmsumd $Xh,$IN,$H2h # H^2.hiXi.hi
vpmsumd $Xh1,$IN1,$Hh # H.hiXi+1.hi
add $inp,$inp,r0
```

```
vxor $X1,$X1,$X1l
vxor $Xm,$Xm,$Xm1
```

vpmsumd \$t2,\$X1,\$xC2 # 1st reduction phase

```
vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xh,$Xh,$Xh1
vxor $X1,$X1,$t0
vxor $Xh,$Xh,$t1
```

```
vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2
lvx_u $IN,r8,$inp
addi $inp,$inp,32
```



```

vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
vpmsumd $X1,$X1,$xC2
le?vperm $IN,$IN,$IN,$lemask
vxor $t1,$t1,$Xh
vxor $IN,$IN,$t1
vxor $IN,$IN,$X1
$UCMP r9,$inp
bgt Loop_2x # done yet?

```

```

cmplwi $len,0
bne Leven

```

Lshort:

```

vpmsumd $X1,$IN,$Hl # H.loXi.lo
vpmsumd $Xm,$IN,$H # H.hiXi.lo+H.loXi.hi
vpmsumd $Xh,$IN,$Hh # H.hiXi.hi

```

```

vpmsumd $t2,$X1,$xC2 # 1st reduction phase

```

```

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $X1,$X1,$t0
vxor $Xh,$Xh,$t1

```

```

vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2

```

```

vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
vpmsumd $X1,$X1,$xC2
vxor $t1,$t1,$Xh

```

Leven:

```

vxor $X1,$X1,$t1
le?vperm $X1,$X1,$X1,$lemask
stvx_u $X1,0,$Xip # write out Xi

```

```

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,4,0
.long 0

```

```

{
my ($Xl3,$Xm2,$IN2,$H3l,$H3,$H3h,
    $Xh3,$Xm3,$IN3,$H4l,$H4,$H4h) = map("v$_",(20..31));
my $IN0=$IN;
my ($H21l,$H21h,$loperm,$hiperm) = ($Hl,$Hh,$H2l,$H2h);

```

```

$code.=<<___.;
.align 5
.gcm_ghash_p8_4x:
Lgcm_ghash_p8_4x:
$STU $sp,-$FRAME($sp)
li r10,`15+6*$SIZE_T`
li r11,`31+6*$SIZE_T`
stvx v20,r10,$sp
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32
stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp
addi r11,r11,32
stvx v28,r10,$sp
addi r10,r10,32
stvx v29,r11,$sp
addi r11,r11,32
stvx v30,r10,$sp
li r10,0x60
stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME-4`($sp) # save vrsave
mtspr 256,r0 # preserve all AltiVec registers

```

```

lvsl $t0,0,r8 # 0x0001..0e0f
#lvx_u $H2l,r8,$Htbl # load H^2
li r8,0x70
lvx_u $H2, r9,$Htbl
li r9,0x80
vspltisb $t1,8 # 0x0808..0808
#lvx_u $H2h,r10,$Htbl
li r10,0x90
lvx_u $H3l,r8,$Htbl # load H^3
li r8,0xa0
lvx_u $H3, r9,$Htbl
li r9,0xb0
lvx_u $H3h,r10,$Htbl
li r10,0xc0

```

```

lvx_u $H4l,r8,$Htbl # load H^4
li r8,0x10
lvx_u $H4, r9,$Htbl
li r9,0x20
lvx_u $H4h,r10,$Htbl
li r10,0x30

vsldoi $t2,$zero,$t1,8 # 0x0000..0808
vaddubm $hiperm,$t0,$t2 # 0x0001..1617
vaddubm $loperm,$t1,$hiperm # 0x0809..1e1f

$SHRI $len,$len,4 # this allows to use sign bit
# as carry
lvx_u $IN0,0,$inp # load input
lvx_u $IN1,r8,$inp
subic. $len,$len,8
lvx_u $IN2,r9,$inp
lvx_u $IN3,r10,$inp
addi $inp,$inp,0x40
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask
le?vperm $IN2,$IN2,$IN2,$lemask
le?vperm $IN3,$IN3,$IN3,$lemask

vxor $Xh,$IN0,$Xl

vpmsumd $Xl1,$IN1,$H3l
vpmsumd $Xm1,$IN1,$H3
vpmsumd $Xh1,$IN1,$H3h

vperm $H2l1,$H2,$H,$hiperm
vperm $t0,$IN2,$IN3,$loperm
vperm $H2lh,$H2,$H,$loperm
vperm $t1,$IN2,$IN3,$hiperm
vpmsumd $Xm2,$IN2,$H2 # H^2.loXi+2.hi+H^2.hiXi+2.lo
vpmsumd $Xl3,$t0,$H2l1 # H^2.loXi+2.lo+H.loXi+3.lo
vpmsumd $Xm3,$IN3,$H # H.hiXi+3.lo +H.loXi+3.hi
vpmsumd $Xh3,$t1,$H2lh # H^2.hiXi+2.hi+H.hiXi+3.hi

vxor $Xm2,$Xm2,$Xm1
vxor $Xl3,$Xl3,$Xl1
vxor $Xm3,$Xm3,$Xm2
vxor $Xh3,$Xh3,$Xh1

blt Ltail_4x

Loop_4x:
lvx_u $IN0,0,$inp

```

```

lvx_u $IN1,r8,$inp
subic. $len,$len,4
lvx_u $IN2,r9,$inp
lvx_u $IN3,r10,$inp
addi $inp,$inp,0x40
le?vperm $IN1,$IN1,$IN1,$lemask
le?vperm $IN2,$IN2,$IN2,$lemask
le?vperm $IN3,$IN3,$IN3,$lemask
le?vperm $IN0,$IN0,$IN0,$lemask

vpmsumd $X1,$Xh,$H4l # H^4.loXi.lo
vpmsumd $Xm,$Xh,$H4 # H^4.hiXi.lo+H^4.loXi.hi
vpmsumd $Xh,$Xh,$H4h # H^4.hiXi.hi
vpmsumd $Xl1,$IN1,$H3l
vpmsumd $Xm1,$IN1,$H3
vpmsumd $Xh1,$IN1,$H3h

vxor $Xl,$Xl,$Xl3
vxor $Xm,$Xm,$Xm3
vxor $Xh,$Xh,$Xh3
vperm $t0,$IN2,$IN3,$loperm
vperm $t1,$IN2,$IN3,$hiperm

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase
vpmsumd $Xl3,$t0,$H2l1 # H.loXi+3.lo +H^2.loXi+2.lo
vpmsumd $Xh3,$t1,$H2h1 # H.hiXi+3.hi +H^2.hiXi+2.hi

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

vsldoi $Xl,$Xl,$Xl,8
vxor $Xl,$Xl,$t2

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd $Xm2,$IN2,$H2 # H^2.hiXi+2.lo+H^2.loXi+2.hi
vpmsumd $Xm3,$IN3,$H # H.hiXi+3.lo +H.loXi+3.hi
vpmsumd $Xl,$Xl,$xC2

vxor $Xl3,$Xl3,$Xl1
vxor $Xh3,$Xh3,$Xh1
vxor $Xh,$Xh,$IN0
vxor $Xm2,$Xm2,$Xm1
vxor $Xh,$Xh,$t1
vxor $Xm3,$Xm3,$Xm2
vxor $Xh,$Xh,$Xl
bge Loop_4x

```

```

Ltail_4x:
    vpmsumd $X1,$Xh,$H4l # H^4.loXi.lo
    vpmsumd $Xm,$Xh,$H4 # H^4.hiXi.lo+H^4.loXi.hi
    vpmsumd $Xh,$Xh,$H4h # H^4.hiXi.hi

    vxor $X1,$X1,$X13
    vxor $Xm,$Xm,$Xm3

    vpmsumd $t2,$X1,$xC2 # 1st reduction phase

    vsldoi $t0,$Xm,$zero,8
    vsldoi $t1,$zero,$Xm,8
    vxor $Xh,$Xh,$Xh3
    vxor $X1,$X1,$t0
    vxor $Xh,$Xh,$t1

    vsldoi $X1,$X1,$X1,8
    vxor $X1,$X1,$t2

    vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
    vpmsumd $X1,$X1,$xC2
    vxor $t1,$t1,$Xh
    vxor $X1,$X1,$t1

    addic $len,$len,4
    beq Ldone_4x

    lvx_u $IN0,0,$inp
    ${UCMP}i $len,2
    li $len,-4
    blt Lone
    lvx_u $IN1,r8,$inp
    beq Ltwo

Lthree:
    lvx_u $IN2,r9,$inp
    le?vperm $IN0,$IN0,$IN0,$lemask
    le?vperm $IN1,$IN1,$IN1,$lemask
    le?vperm $IN2,$IN2,$IN2,$lemask

    vxor $Xh,$IN0,$X1
    vmr $H4l,$H3l
    vmr $H4, $H3
    vmr $H4h,$H3h

    vperm $t0,$IN1,$IN2,$loperm
    vperm $t1,$IN1,$IN2,$hiperm

```

```
vpmsumd $Xm2,$IN1,$H2 # H^2.loXi+1.hi+H^2.hiXi+1.lo
vpmsumd $Xm3,$IN2,$H # H.hiXi+2.lo +H.loXi+2.hi
vpmsumd $Xl3,$t0,$H2l1 # H^2.loXi+1.lo+H.loXi+2.lo
vpmsumd $Xh3,$t1,$H2lh # H^2.hiXi+1.hi+H.hiXi+2.hi
```

```
vxor $Xm3,$Xm3,$Xm2
b Ltail_4x
```

```
.align 4
```

```
Ltwo:
```

```
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask
```

```
vxor $Xh,$IN0,$Xl
vperm $t0,$zero,$IN1,$loperm
vperm $t1,$zero,$IN1,$hiperm
```

```
vsldoi $H4l,$zero,$H2,8
vmr $H4, $H2
vsldoi $H4h,$H2,$zero,8
```

```
vpmsumd $Xl3,$t0, $H2l1 # H.loXi+1.lo
vpmsumd $Xm3,$IN1,$H # H.hiXi+1.lo+H.loXi+2.hi
vpmsumd $Xh3,$t1, $H2lh # H.hiXi+1.hi
```

```
b Ltail_4x
```

```
.align 4
```

```
Lone:
```

```
le?vperm $IN0,$IN0,$IN0,$lemask
```

```
vsldoi $H4l,$zero,$H,8
vmr $H4, $H
vsldoi $H4h,$H,$zero,8
```

```
vxor $Xh,$IN0,$Xl
vxor $Xl3,$Xl3,$Xl3
vxor $Xm3,$Xm3,$Xm3
vxor $Xh3,$Xh3,$Xh3
```

```
b Ltail_4x
```

```
Ldone_4x:
```

```
le?vperm $Xl,$Xl,$Xl,$lemask
stvx_u $Xl,0,$Xip # write out Xi
```

```
li r10,`15+6*$SIZE_T`
```

```
li r11,`31+6*$SIZE_T`
```

```

    mtspr 256,$vrsave
    lvx v20,r10,$sp
    addi r10,r10,32
    lvx v21,r11,$sp
    addi r11,r11,32
    lvx v22,r10,$sp
    addi r10,r10,32
    lvx v23,r11,$sp
    addi r11,r11,32
    lvx v24,r10,$sp
    addi r10,r10,32
    lvx v25,r11,$sp
    addi r11,r11,32
    lvx v26,r10,$sp
    addi r10,r10,32
    lvx v27,r11,$sp
    addi r11,r11,32
    lvx v28,r10,$sp
    addi r10,r10,32
    lvx v29,r11,$sp
    addi r11,r11,32
    lvx v30,r10,$sp
    lvx v31,r11,$sp
    addi $sp,$sp,$FRAME
    blr
    .long 0
    .byte 0,12,0x04,0,0x80,0,4,0
    .long 0
    —
}
$code.=<<___;
.size .gcm_ghash_p8,-.gcm_ghash_p8

.asciz "GHASH for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"
.align 2
—

foreach (split("\n",$code)) {
    s^\([^ ]*\)\`/eval $1/geo;

    if ($flavour =~ /le$/o) { # little-endian
        s/le\?//o or
        s/be\?/#be#/o;
    } else {
        s/le\?/#le#/o or
        s/be\?//o;
    }
    print $_,"\\n";
}

```

}

close STDOUT; # enforce flush

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghashp8-ppc.pl

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/armv4-gf2m.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghashv8-armx.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86\_64-mont.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-586.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv8.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-parisc.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-x86\_64.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sparcv9-mont.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86-mont.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/ppc-mont.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-alpha.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparcv9a.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-sha1-x86\_64.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-586.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-



2.0.16/crypto/aes/asm/aesni-x86\_64.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-thumb.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha512-parisc.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha512-sparcv9.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha512ppc.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha256-armv4.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/s390x-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-armv8.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/modes/asm/ghash-x86.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-sparcv9.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha512-armv4.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/modes/asm/ghash-sparcv9.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-c64xplus.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-c64x.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/x86\_64-gf2m.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-armv4.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha512-ppc.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aesni-x86.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/mips-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha512-mips.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/parisc-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha256-c64xplus.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-c64x.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-s390x.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-

2.0.16/crypto/sha/asm/sha512-ia64.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/x86\_64-mont5.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-s390x.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/modes/asm/ghash-s390x.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/x86-gf2m.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/s390x-gf2m.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha256-c64x.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/modes/asm/ghash-alpha.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-mips.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-586.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/sparcv9a-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-ia64.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/via-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-586.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-parisc.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha512-s390x.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/alpha-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/ia64-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-x86\_64.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/armv4-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-mips.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aesv8-armx.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-ppc.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/bn/asm/ppc64-mont.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-

2.0.16/crypto/modes/asm/ghash-ia64.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-parisc.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-c64xplus.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/sha/asm/sha1-armv4-large.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/aes/asm/aes-x86\_64.pl  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/modes/asm/ghash-armv4.pl

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/engine/eng\_int.h

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```
#!/usr/bin/env perl
#
# =====
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# =====
#
# December 2011
#
# The module implements GCM GHASH function and underlying single
# multiplication operation in GF(2^128). Even though subroutines
# have _4bit suffix, they are not using any tables, but rely on
# hardware Galois Field Multiply support. Streamed GHASH processes
# byte in ~7 cycles, which is >6x faster than "4-bit" table-driven
# code compiled with TI's cl6x 6.0 with -mv6400+ -o2 flags. We are
# comparing apples vs. oranges, but compiler surely could have done
# better, because theoretical [though not necessarily achievable]
```

# estimate for "4-bit" table-driven implementation is ~12 cycles.

```
while (($output=shift) && ($output!~/^[w\|-]*\.[w+$/)) { }  
open STDOUT,">$output";
```

```
($Xip,$Htable,$Inp,$len)=("A4","B4","A6","B6"); # arguments
```

```
($Z0,$Z1,$Z2,$Z3, $H0, $H1, $H2, $H3,  
 $H0x,$H1x,$H2x,$H3x)=map("A$_",(16..27));  
($H01u,$H01y,$H2u,$H3u, $H0y,$H1y,$H2y,$H3y,  
 $H0z,$H1z,$H2z,$H3z)=map("B$_",(16..27));  
($FF000000,$E10000)=("B30","B31");  
($xip,$x0,$x1,$xib)=map("B$_",(6..9)); # $xip zaps $len  
$xia="A9";  
($rem,$res)=("B4","B5"); # $rem zaps $Htable
```

```
$code.=<<____;
```

```
.text
```

```
.asg B3,RA
```

```
.if 0
```

```
.global _gcm_gmult_1bit
```

```
_gcm_gmult_1bit:
```

```
ADDAD $Htable,2,$Htable
```

```
.endif
```

```
.global _gcm_gmult_4bit
```

```
_gcm_gmult_4bit:
```

```
.asmfunc
```

```
LDDW *${Htable}[-1],$H1:$H0 ; H.lo
```

```
LDDW *${Htable}[-2],$H3:$H2 ; H.hi
```

```
|| MV $Xip,${xip} ; reassign Xi
```

```
|| MVK 15,B1 ; SPLOOPD constant
```

```
MVK 0xE1,$E10000
```

```
|| LDBU *+${xip}[15],$x1 ; Xi[15]
```

```
MVK 0xFF,$FF000000
```

```
|| LDBU *-${xip},$x0 ; Xi[14]
```

```
SHL $E10000,16,$E10000 ; [pre-shifted] reduction polynomial
```

```
SHL $FF000000,24,$FF000000 ; upper byte mask
```

```
|| BNOP ghash_loop?
```

```
|| MVK 1,B0 ; take a single spin
```

```
PACKH2 $H0,$H1,$xia ; pack H0' and H1's upper bytes
```

```
AND $H2,$FF000000,$H2u ; H2's upper byte
```

```
AND $H3,$FF000000,$H3u ; H3's upper byte
```

```
|| SHRU $H2u,8,$H2u
```

```
SHRU $H3u,8,$H3u
```

```

|| ZERO $Z1:$Z0
SHRU2 $xia,8,$H01u
|| ZERO $Z3:$Z2
.endasmfunc

.global _gcm_ghash_4bit
_gcm_ghash_4bit:
.asmfunc
LDDW *${Htable}[-1],$H1:$H0 ; H.lo
|| SHRU $len,4,B0 ; reassign len
LDDW *${Htable}[-2],$H3:$H2 ; H.hi
|| MV $Xip,${xip} ; reassign Xi
|| MVK 15,B1 ; SPLOOPD constant

MVK 0xE1,$E10000
|| [B0] LDNDW *${inp}[1],$H1x:$H0x
MVK 0xFF,$FF000000
|| [B0] LDNDW *${inp}++[2],$H3x:$H2x
SHL $E10000,16,$E10000 ; [pre-shifted] reduction polynomial
|| LDDW *${xip}[1],$Z1:$Z0
SHL $FF000000,24,$FF000000 ; upper byte mask
|| LDDW *${xip}[0],$Z3:$Z2

PACKH2 $H0,$H1,$xia ; pack H0' and H1's upper bytes
AND $H2,$FF000000,$H2u ; H2's upper byte
AND $H3,$FF000000,$H3u ; H3's upper byte
|| SHRU $H2u,8,$H2u
SHRU $H3u,8,$H3u
SHRU2 $xia,8,$H01u

|| [B0] XOR $H0x,$Z0,$Z0 ; Xi^=inp
|| [B0] XOR $H1x,$Z1,$Z1
.if .LITTLE_ENDIAN
[B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] SHRU $Z1,24,$xia ; Xi[15], avoid cross-path stall
STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z1,16,$x0 ; Xi[14]
|| [B0] ZERO $Z1:$Z0
.else
[B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] MV $Z0,$xia ; Xi[15], avoid cross-path stall
STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z0,8,$x0 ; Xi[14]
|| [B0] ZERO $Z1:$Z0
.endif
STDW $Z3:$Z2,*${xip}[0]

```

```

|| [B0] ZERO $Z3:$Z2
|| [B0] MV $xia,$x1
[B0] ADDK 14,{xip}

```

ghash\_loop?:

```

SPLOOPD 6 ; 6*16+7
|| MVC B1,ILC
|| [B0] SUB B0,1,B0
|| ZERO A0
|| ADD $x1,$x1,$xib ; SHL $x1,1,$xib
|| SHL $x1,1,$xia

```

#####

```

# 0 D2. M1 M2 |
# 1 M1 |
# 2 M1 M2 |
# 3 D1. M1 M2 |
# 4 S1. L1 |
# 5 S2 S1x L1 D2 L2 |_____
# 6/0 L1 S1 L2 S2x |D2. M1 M2 |
# 7/1 L1 S1 D1x S2 M2 | M1 |
# 8/2 S1 L1x S2 | M1 M2 |
# 9/3 S1 L1x | D1. M1 M2 |
# 10/4 D1x | S1. L1 |
# 11/5 |S2 S1x L1 D2 L2 |_____
# 12/6/0 D1x ___| L1 S1 L2 S2x |D2. ....
# 7/1 L1 S1 D1x S2 M2 | ....
# 8/2 S1 L1x S2 | ....
#####... .....|.....

```

\$code.=<<\_\_\_;

```

XORMPY $H0,$xia,$H0x ; 0 ; HXi[i]
|| XORMPY $H01u,$xib,$H01y
|| [A0] LDBU *--${xip},$x0
XORMPY $H1,$xia,$H1x ; 1
XORMPY $H2,$xia,$H2x ; 2
|| XORMPY $H2u,$xib,$H2y
XORMPY $H3,$xia,$H3x ; 3
|| XORMPY $H3u,$xib,$H3y
|[!A0] MVK.D 15,A0 ; *--${xip} counter
XOR.L $H0x,$Z0,$Z0 ; 4 ; Z^=HXi[i]
|| [A0] SUB.S A0,1,A0
XOR.L $H1x,$Z1,$Z1 ; 5
|| AND.D $H01y,$FF000000,$H0z
|| SWAP2.L $H01y,$H1y ; ; SHL $H01y,16,$H1y
|| SHL $x0,1,$xib
|| SHL $x0,1,$xia

```

```

XOR.L $H2x,$Z2,$Z2 ; 6/0 ; [0,0] in epilogue
|| SHL $Z0,1,$rem ; ; rem=Z<<1
|| SHRMB.S $Z1,$Z0,$Z0 ; ; Z>>=8
|| AND.L $H1y,$FF000000,$H1z
XOR.L $H3x,$Z3,$Z3 ; 7/1
|| SHRMB.S $Z2,$Z1,$Z1
|| XOR.D $H0z,$Z0,$Z0 ; merge upper byte products
|| AND.S $H2y,$FF000000,$H2z
|| XORMPY $E10000,$rem,$res ; ; implicit rem&0x1FE
XOR.L $H1z,$Z1,$Z1 ; 8/2
|| SHRMB.S $Z3,$Z2,$Z2
|| AND.S $H3y,$FF000000,$H3z
XOR.L $H2z,$Z2,$Z2 ; 9/3
|| SHRU $Z3,8,$Z3
XOR.D $H3z,$Z3,$Z3 ; 10/4
NOP ; 11/5

```

SPKERNEL 0,2

```

|| XOR.D $res,$Z3,$Z3 ; 12/6/0; Z^=res

```

; input pre-fetch is possible where D1 slot is available...

```

[B0] LDNDW *${inp}[1],$H1x:$H0x ; 8/-

```

```

[B0] LDNDW *${inp}++[2],$H3x:$H2x ; 9/-

```

```

NOP ; 10/-

```

```

.if .LITTLE_ENDIAN

```

```

SWAP2 $Z0,$Z1 ; 11/-

```

```

|| SWAP4 $Z1,$Z0

```

```

SWAP4 $Z1,$Z1 ; 12/-

```

```

|| SWAP2 $Z0,$Z0

```

```

SWAP2 $Z2,$Z3

```

```

|| SWAP4 $Z3,$Z2

```

```

||[!B0] BNOP RA

```

```

SWAP4 $Z3,$Z3

```

```

|| SWAP2 $Z2,$Z2

```

```

|| [B0] BNOP ghash_loop?

```

```

[B0] XOR $H0x,$Z0,$Z0 ; Xi^=inp

```

```

|| [B0] XOR $H1x,$Z1,$Z1

```

```

[B0] XOR $H2x,$Z2,$Z2

```

```

|| [B0] XOR $H3x,$Z3,$Z3

```

```

|| [B0] SHRU $Z1,24,$xia ; Xi[15], avoid cross-path stall

```

```

STDW $Z1:$Z0,*${xip}[1]

```

```

|| [B0] SHRU $Z1,16,$x0 ; Xi[14]

```

```

|| [B0] ZERO $Z1:$Z0

```

```

.else

```

```

[!B0] BNOP RA ; 11/-

```

```

[B0] BNOP ghash_loop? ; 12/-

```

```

[B0] XOR $H0x,$Z0,$Z0 ; Xi^=inp

```

```

|| [B0] XOR $H1x,$Z1,$Z1

```



```

[B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] MV $Z0,$xia ; Xi[15], avoid cross-path stall
STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z0,8,$x0 ; Xi[14]
|| [B0] ZERO $Z1:$Z0
.endif
STDW $Z3:$Z2,*${xip}[0]
|| [B0] ZERO $Z3:$Z2
|| [B0] MV $xia,$x1
[B0] ADDK 14,${xip}
.endasmfunc

.sect .const
.cstring "GHASH for C64x+, CRYPTOGAMS by <appro\@openssl.org>"
.align 4

```

```

print $code;
close STDOUT;

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-c64xplus.pl

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 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips\_lck.c  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips\_gcmtest.c  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_drbg\_hmac.c  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_drbg\_ctr.c  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_rand\_lcl.h  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_drbg\_selftest.c  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_drbgvs.c  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdh/fips\_ecdhvs.c  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips\_ecdsavs.c

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_drbg\_hash.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips\_dhvs.c  
\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_drbg\_rand.c

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```

tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

This file is part of a free library for the Win32 API.

This library is distributed in the hope that it will be useful,  
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```

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# 1.244 audit 2.6.5 3.e17

## 1.244.1 Available under license :

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Version 2, June 1991

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### Preamble

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## 1.246 libusb 1.0.19

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## 1.247 smartmontools 6.4

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# 1.251 json-c 0.13.1

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# 1.252 atk 1.33.6

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# 1.253 sysstat 11.7.4

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that



process, the shell script was created.

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```
=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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```

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>

```

```

    <xsl:text>#10;</xsl:text>
  </xsl:for-each>
  <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->

```

# 1.257 bash 4.3.30

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@c ispell-local-pdict: "ispell-dict"  
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THE BASIC LIBRARY FUNCTIONS

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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## 1.262 udev 219 57.el7

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## 1.263 pciutils 3.6.2

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Ty Coon, President of Vice
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## 1.265 protobuf-c 1.3.1

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\* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <proppy@aminche.com>

\* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>

\* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

\* VI syntax highlighting tweaks.

\* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

\* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

\* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

\* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

\* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

\* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

\* MS Visual Studio error format option.

\* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>

\* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

# 1.266 efibootmgr 0.8.0 10.el7

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```
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```

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```
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```
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```

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## 1.267 xz 5.2.4

## 1.267.1 Available under license :

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=====

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
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GNU General Public License for more details.
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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
```

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```
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Ty Coon, President of Vice
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=====

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```
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```

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## 1.273 e2fsprogs 1.43

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This package was put together by Yann Dirson [dirson@debian.org](mailto:dirson@debian.org), from sources obtained from a mirror of:  
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```
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```

```
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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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Theodore Ts'o  
23-June-2007

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```
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```

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That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

all:: image

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
Index: tdbsa/tdb.c
```

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell          2005
```

- + Copyright (C) Andrew Tridgell 1999-2005
- + Copyright (C) Jeremy Allison 2000-2006
- + Copyright (C) Paul 'Rusty' Russell 2000

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This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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## 1.274 jquery 1.7.2

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```

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```
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under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.277 Isof 4.91

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```

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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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# 1.278 tftp-hpa 0.49

## 1.278.1 Available under license :

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```
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*  
* Copyright 2001 H. Peter Anvin - All Rights Reserved  
*  
* This program is free software available under the same license  
* as the "OpenBSD" operating system, distributed at  
* http://www.openbsd.org/.  
*  
* ----- */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h
```

No license file was found, but licenses were detected in source scan.

```
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*  
* ----- */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h  
*/opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c
```

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```
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```

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.h

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 0.49

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildPreReq: tcp\_wrappers

BuildRoot: %{\_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?\_smp\_mflags}



```

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
  install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33

```

- Add /tftpboot directory (#88204)
  
- \* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt
  
- \* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp\_wrappers
  
- \* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt
  
- \* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32
  
- \* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30
  
- \* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476
  
- \* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29
  
- \* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)
  
- \* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.
  
- \* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
  
- \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>

- rebuilt in 7.1.x

\* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>

- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

\* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>

- don't let configure to guess compiler, it can pick up eggs

\* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

\* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

\* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>

- xinetd shouldn't wait on tftp (which forks) (#23923).

\* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>

- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

\* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>

- default to being disabled

\* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>

- correct group.

\* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>

- change user from root to nobody

\* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>

- update to tftp-hpa-0.14 (#14003).
- add server\_args (#14003).
- remove -D\_BSD\_SOURCE (#14003).

\* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>

- cook up an xinetd config file for tftpd

\* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>

- automatic rebuild

- \* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.
  
- \* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use `_BSD_SOURCE` for hpa's tftpd so we get BSD signal semantics.
  
- \* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description
  
- \* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).
  
- \* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary
  
- \* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server
  
- \* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.
  
- \* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.
  
- \* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)
  
- \* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)
  
- \* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.
  
- \* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root
  
- \* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr
  
- \* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for `getpwnam()` failure
  
- \* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec

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```

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```

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```

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```
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```

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```
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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.c
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c
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Found in path(s):

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 \* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-  
 0.49/common/tftpsubs.c  
 \* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c

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```

Found in path(s):

```
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```

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```

Found in path(s):

```
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```

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```
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```

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```
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```

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\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.c

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```

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```

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* NCSA HTTPd Server
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*****/
*
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\* -----

\*/

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```
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```

For the test\zb.c component:

```
/*           ZeusBench V1.01  
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:  
Mike Belshe (mbelshe@netscape.com)  
Michael Campanella (campanella@stevms.enet.dec.com)

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```

```
* -----  
*  
*/
```

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```
/*  
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* National Center for Supercomputing Applications  
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* 605 E. Springfield, Champaign, IL 61820  
* httpd@ncsa.uiuc.edu  
*  
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*  
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*/
```

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```
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*/
```

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```
#  
# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).  
#  
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#
```

For the test\zb.c component:

```
/*          ZeusBench V1.01  
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

\*/

For the expat xml parser component:

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```
=====
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
```

</div>

<p class="centered">Apache License<br />

Version 2.0, January 2004<br />

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```
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```

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</div>

</div>

```
<div class="bottomlang">
```

```
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
```

```
</div><div class="top"><a href="#page-header"></a></div><div
```

```
class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
```

```
class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the documentation or server, and may be removed again by our moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a href="http://httpd.apache.org/lists.html">mailing lists</a></div>
```

```
<script type="text/javascript"><!--><![CDATA[//><!--
```

```
var comments_shortname = 'httpd';
```

```
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
```

```
(function(w, d) {
```

```
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
```

```
    d.write('<div id="comments_thread"></div>');
```

```
    var s = d.createElement('script');
```

```
    s.type = 'text/javascript';
```

```
    s.async = true;
```

```
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
```

```
comments_identifier;
```

```
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
```

```
  }
```

```
  else {
```

```
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
```

```
  }
```

```
})(window, document);
```

```
//><![></script></div><div id="footer">
```

```
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
```

```
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a></p>
```

```
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[</><!-->
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
}
--><![></script>
</body></html>
```

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Inc. MD5 Message-Digest Algorithm, including various  
modifications by Spyglass Inc., Carnegie Mellon University, and  
Bell Communications Research, Inc (Bellcore).

# 1.280 libgcrypt 1.5.3 12.el7\_1.1

## 1.280.1 Available under license :

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## 1.282 libusb 1.0.18

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# 1.283 systemd-shim 219-19.el7\_2.13

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## 1.284 busybox 1.29.2

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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Version 2.1, February 1999

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From gsf@research.att.com Wed Mar 1 20:30:54 2006

Return-Path: <gsf@research.att.com>

X-Original-To: mps@bridge.intra

Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])

by localhost (Postfix) with ESMTP id B8C814E4F

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)

Received: from mail.bridge.intra ([127.0.0.1])

by localhost (Inx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)

with LMTP id 05987-03 for <mps@bridge.intra>;

Wed, 1 Mar 2006 20:30:42 +0100 (CET)

Received: from pop.gmx.net (localhost [127.0.0.1])

by mail.bridge.intra (Postfix) with ESMTP id C8C73794D



for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)  
X-Flags: 0000  
Delivered-To: GMX delivery to ps.m@gmx.net  
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000  
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]  
by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100  
Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])  
by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB  
for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
Received: (from gsf@localhost)  
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Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
From: Glenn Fowler <gsf@research.att.com>  
Message-Id: <200603011923.OAA86112@raptor.research.att.com>  
Organization: AT&T Research  
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>  
To: mps@bridge.intra  
Subject: Re: testregex licensing question  
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)  
X-GMX-Antispam: 0 (Mail was not recognized as spam)  
X-GMX-UID: IJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca  
X-Virus-Scanned: by amavisd-new at localhost  
Status: RO  
X-Status:  
X-Keywords:  
X-UID: 44736

you may include it directly  
retain the testregex.c header comment  
it uses a very free license to maximize distribution  
you can copy that .c comment to any test data files you use  
using # comment style to be complete

let me know how it works with your libc  
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related \*.dat files to the uClibc  
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any  
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite  
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2

> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

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# 1.289 tar 1.30

## 1.289.1 Available under license :

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Version 3, 29 June 2007

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

The gettext-runtime package is partially under the LGPL and partially under the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:

- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:

- the \_programs\_ gettext, ngettext, envsubst,
- the documentation.

@node GNU GPL

@appendixsec GNU GENERAL PUBLIC LICENSE

@cindex GPL, GNU General Public License

@cindex License, GNU GPL

@center Version 2, June 1991

@c This file is intended to be included in another file.

@display

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@unnumberedsubsec Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

@iftex

@unnumberedsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)  
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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@heading NO WARRANTY

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@end enumerate

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@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@page

@unnumberedsubsec Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{yyyy} @var{name of author}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) 19@var{yy} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `@samp{show w}` and `@samp{show c}`; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
@node GNU LGPL
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, GNU Lesser General Public License
@cindex License, GNU LGPL
@center Version 2.1, February 1999
```

```
@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin St -- Fifth Floor, Boston, MA 02110-1301, USA
```

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@unnumberedsubsec Preamble

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be

introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex

@unnumberedsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE

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A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the



application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)  
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item

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it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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## 1.291 util-md5 2.4.12

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```
/******
```

```
* NCSA HTTPd Server  
* Software Development Group  
* National Center for Supercomputing Applications  
* University of Illinois at Urbana-Champaign  
* 605 E. Springfield, Champaign, IL 61820  
* httpd@ncsa.uiuc.edu  
*
```

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```
*****
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```
*  
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code  
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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
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Version 3, 29 June 2007
```

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```
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```

```
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## 1.297 sql-cipher 3.0.0

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#define \_KERBEROS\_MIT\_COPYRIGHT\_H

/\* #pragma ident "@(#)mit-copyright.h 1.4 93/02/04 SMI" \*/

#endif /\* \_KERBEROS\_MIT\_COPYRIGHT\_H \*/

/\* CMU libsacl

\* Tim Martin

\* Rob Earhart

\* Rob Siemborski

\*/

/\*

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```

```
#pragma ident "@(#)mit-sipb-copyright.h 1.5 93/02/04 SMI"
```

```
#endif /* _KERBEROS_MIT_COPYRIGHT_H */
```

```
/* CMU libsasl
```

```
 * Tim Martin
```

```
 * Rob Earhart
```

```
 * Rob Siemborski
```

```
 */
```

```
 /*
```

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## 1.301 telnet-netkit 0.17

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# 1.302 log-rotate 3.14.0

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numbered 2 because it goes with version 2 of the ordinary GPL.]

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the



libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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For example, if you distribute copies of such a program, whether

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

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#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system

(if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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## 1.304 gtk 2.24.10

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```
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```
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```

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## 1.308 glib 2.50.3 3.e17

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# 1.314 xorg-server 1.14.2

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clarify this fact.

\* `configure.ac`, `Makefile.am`: The original versions were derived from the  
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were  
derived from the ones in the Monotone project, revision  
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp:  
These files were derived from the file\_handle, systembuf, pipe and pistream  
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk,  
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,  
except the first one, were first implemented in the Buildtool project.  
They were later adapted to be part of Boost.Process and, during that  
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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```

```

<!-- $Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

```

```

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```

```

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```

```

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>
```

<!--

- Local variables:
- mode: sgml
- End:

-->

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## 1.317 coreutils 8.22

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@end enumerate

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{yyyy} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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library `Frob' (a library for tweaking knobs) written by James  
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<signature of Ty Coon>, 1 April 1990  
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```

```
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Ty Coon, President of Vice
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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=====

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c

lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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# 1.331 bridgeutils 1.6

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# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
```



```
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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2006-Jan-27

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```
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```

```
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The End

## 1.336 grep 2.19

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Version 3, 29 June 2007

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```

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\*

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\*

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\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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## 1.345 Im-sensors 3.4.0

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That's all there is to it!  
Here is a list of the main contributors to lm-sensors version 3.

- \* Frodo Looijaard  
Original author of libsensors, sensors-detect, sensors and isadump.
- \* Merlin Hughes  
Original author of sensord.
- \* Bob Schlaermann  
Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
- \* Mark M. Hoffman  
Many improvements to the libsensors configuration file scanner.
- \* Jean Delvare  
New libsensors API, and migration of sensors and sensord thereto.  
Many optimizations in libsensors and sensors.  
Configuration file converter.  
Rewrite of sensors-detect.  
Support for multiple configuration files in libsensors.

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## 1.347 syslogd 1.5.0

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## 1.350 ncurses 6.1-r0

### 1.350.1 Available under license :

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-- vile: txtmode file-encoding=utf-8  
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-- vile:txtmode fc=72

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: \*

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Calling this script install-sh is preferred over install.sh, to prevent `make` implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `'/usr/share/common-licenses/GPL-2'`

-- vile: txtmode file-encoding=utf-8

## 1.351 iconv 2.28

### 1.351.1 Available under license :

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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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# 1.352 util-linux 2.23.2-26.el7

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\*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83

#2: 7680 8704 0xa5

#5: 7936 4864 0x7 (freebsd)

#6: 12544 3584 0x7 (freebsd)

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Version 2, June 1991

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos  
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
--------	------	-------	-----	--------	----	--------

-----

Create 1st primary partition  
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----  
\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors  
Units = sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disk label type: dos  
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux

-----

Create 2st primary partition  
1bebf87248e05d6e4e62b749da65d023 bsd.img  
Set 2nd partition type  
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----  
\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors  
Units = sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disk label type: dos  
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux
__ts_dev__2		4096	20479	8192	a5	FreeBSD

-----

Create default BSD  
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
c:	4096	20479	16384	unused	0	0	
d:	0	16064	16065	unused	0	0	

BSD disklabel command (m for help):

Command (m for help):

-----

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
a:	4096	6144	2049	4.2BSD	0	0	0
c:	4096	20479	16384	unused	0	0	
d:	0	16064	16065	unused	0	0	

BSD disklabel command (m for help):

Command (m for help):

-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
1	swap	6	Eighth Edition	a	unknown	e	ADOS
2	Version 6	7	4.2BSD	b	HPFS	f	HFS
3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
4	System V						



Bell Labs Innovations for Lucent Technologies

mmclennan@lucent.com

<http://www.tcltk.com/itcl>

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## 1.355 linux-kernel 3.4.30

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## 1.356 curl 7.43.0

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License Mixing

=====

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can lead to for end users.

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Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

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### ## c-ares

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### ## zlib

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### ## MIT Kerberos

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### ## Heimdal

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### ## GNU GSS

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## libssh2

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## 1.357 libffi 3.1

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Version 3, 29 June 2007

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```
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```
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```
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```

```
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## 1.361 avahi 0.7

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## 1.362 memstat 6.18.04-2.el7

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builds/unix/pkg.m4

#

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docs/GPLv2.TXT

#

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

src/pcf/README

src/pcf/rules.mk

#

src/gzip/adler32.c

src/gzip/infblock.c

src/gzip/infblock.h

```
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/ftrandom/ftrandom.c
#
# EOF
PCRE LICENCE
```

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

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Component: jQuery mobile 1.3.1

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Website: <http://jquerymobile.com/>

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Component: jquery-glob  
Licensor: Software Freedom Conservancy, Inc.  
Website: <http://github.com/nje/jquery-globalize>  
License: MIT License  
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Component: jquery-mobile 1.3.1  
Licensor: jQuery Foundation, Inc. and other contributors  
Website: <http://github.com/jquery/jquery-mobile/>  
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Component: jquery.fix.clone  
Licensor: Spencer Tipping  
Website: <https://github.com/spencertipping/jquery.fix.clone>  
License: MIT License  
<year> = unspecified  
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Component: js-signals 1.0.0  
Licensor: Miller Medeiros  
Website: <http://github.com/millermedeiros/js-signals/>  
License: MIT License  
<year> = unspecified  
<copyright holders> = Miller Medeiros

Component: JSON in JavaScript  
Licensor: Douglas Crockford  
Website: <http://www.json.org/js.html>  
License: Public Domain

Component: JSZip 2.2.0  
Licensor: Stuart Knightley, David Duponchel, Franz Buchinger, Antnio Afonso  
Website: <https://github.com/Stuk/jszip>  
License: MIT License  
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Component: JUnit Reporter for QUnit  
Licensor: jQuery Foundation and other contributors  
Website: <https://github.com/JamesMGreene/qunit-reporter-junit>  
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Component: klay.js 0.4.1  
Licensor: Ulf Rueegg  
Website: <https://github.com/OpenKieler/klayjs>  
License: Eclipse Public License - v 1.0

Component: less.js 1.6.3  
Licensor: Alexis Sellier & The Core Less Team  
Website: <http://github.com/cloudhead/less.js/>  
License: Apache License 2.0

Component: mobify.js 1.1  
Licensor: Mobify R&D Inc  
Website: <http://www.mobify.com/>  
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Component: mobiscroll 2.9.0  
Licensor: Mathias Bynens  
Website: <http://mobiscroll.codeplex.com/>  
License: MIT License  
<year> = unspecified  
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Component: node-lru-cache 2.7.3 - A cache object that deletes the least-recently-used items.  
Licensor: Isaac Z. Schlueter and Contributors  
Website: <https://github.com/isaacs/node-lru-cache/blob/v2.7.3/>  
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Component: Object assign Method  
Licensor: Mozilla Developer Network  
Website: [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Object/assign#Polyfill](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/assign#Polyfill)  
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Component: punycode.js 1.2.3  
Licensor: Acid Media  
Website: <http://github.com/bestiejs/punycode.js/>  
License: MIT License  
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Component: qunit 1.18.0  
Licensor: jQuery Foundation and other contributors  
Website: <http://github.com/jquery/qunit/>  
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Licensor: jQuery Foundation and other contributors  
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Component: qunit composite 1.0.4  
Licensor: jQuery Foundation and other contributors  
Website: <https://github.com/JamesMGreene/qunit-composite>  
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Licensor: The Dojo Foundation  
Website: <http://github.com/jrburke/requirejs/>  
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Licensor: Christian Johansen  
Website: <http://github.com/cjohansen/sinon-qunit/>  
License: BSD 3-clause "New" or "Revised" License  
<OWNER> = Christian Johansen  
<ORGANIZATION> = Christian Johansen  
<YEAR> = 2010-2011

Component: Sinon.JS 1.14.1  
Licensor: Christian Johansen  
Website: <http://github.com/cjohansen/Sinon.JS/>  
License: BSD 3-clause "New" or "Revised" License  
<OWNER> = Christian Johansen  
<ORGANIZATION> = Christian Johansen  
<YEAR> = 2010-2014

Component: Sinon.JS 4.4.6  
Licensor: Christian Johansen  
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<OWNER> = Christian Johansen  
<ORGANIZATION> = Christian Johansen  
<YEAR> = 2010-2017



Component: String startsWith Method 0.2.0  
Licensor: Mathias Bynens  
Website: <https://github.com/mathiasbynens/String.prototype.startsWith>  
License: MIT License  
<year> = unspecified  
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Component: String endsWith Method 0.2.0  
Licensor: Mathias Bynens  
Website: <https://github.com/mathiasbynens/String.prototype.endsWith>  
License: MIT License  
<year> = unspecified  
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Component: String includes Method 1.0.0  
Licensor: Mathias Bynens  
Website: <https://github.com/mathiasbynens/String.prototype.includes>  
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<year> = unspecified  
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Component: String repeat Method 0.2.0  
Licensor: Mathias Bynens  
Website: <https://github.com/mathiasbynens/String.prototype.repeat>  
License: MIT License  
<year> = unspecified  
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Component: String padStart Method 1.0.1  
Licensor: Behnam Mohammadi ( )  
Website: <https://github.com/uxitten/polyfill>  
License: MIT License  
<year> = 2017  
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Component: String padEnd Method 1.0.1  
Licensor: Behnam Mohammadi ( )  
Website: <https://github.com/uxitten/polyfill>  
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Component: SwipeView 1.0  
Licensor: Matteo Spinelli  
Website: <http://github.com/cubiq/SwipeView/>  
License: MIT License  
<year> = 2012  
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Component: TDOP  
Licensor: Douglas Crockford  
Website: <https://github.com/douglascrockford/TDOP>  
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Component: Unicode Common Locale Data Repository  
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Website: <http://cldr.unicode.org/>  
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Component: unorm 1.3.3  
Licensor: Bjarke Walling  
Website: <http://github.com/walling/unorm/>  
License: MIT License  
<copyright holders> = Bjarke Walling  
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Component: URI.js 1.19.1  
Licensor: Rodney Rehm  
Website: <http://github.com/medialize/URI.js/>  
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<copyright holders> = Rodney Rehm

Component: vkBeautify 0.99.00.beta  
Licensor: Vadim Kiryukhin  
Website: <http://www.eslinstructor.net/vkbeautify/>  
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<year> = 2012  
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Component: Zynga Scroller 1.2.1-0-g5d43806  
Licensor: Zynga Inc.  
Website: <http://zynga.github.com/scroller/>  
License: MIT License  
<year> = 2011  
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Component: jalaali-js  
Licensor: Behrang Noruzi Niya  
Website: <https://github.com/jalaali/jalaali-js/>  
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Component: bignumber.js 6.0.0  
Licensor: Michael McLaughlin

Website: <https://github.com/MikeMcl/bignumber.js/>

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Component: mnater/Hyphenopoly 2.4.0

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at <http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in  
src/devices/xditview/Dvi.c  
src/devices/xditview/Dvi.h  
src/devices/xditview/DviP.h  
src/devices/xditview/FontMap  
src/devices/xditview/GXditview.ad  
src/devices/xditview/Menu.h  
src/devices/xditview/ad2c  
src/devices/xditview/device.c  
src/devices/xditview/device.h  
src/devices/xditview/draw.c  
src/devices/xditview/font.c  
src/devices/xditview/gray1.bm  
src/devices/xditview/gray2.bm  
src/devices/xditview/gray3.bm  
src/devices/xditview/gray4.bm  
src/devices/xditview/gray5.bm  
src/devices/xditview/gray6.bm  
src/devices/xditview/gray7.bm  
src/devices/xditview/gray8.bm  
src/devices/xditview/gxditview.man  
src/devices/xditview/lex.c  
src/devices/xditview/page.c  
src/devices/xditview/parse.c  
src/devices/xditview/xdit.bm  
src/devices/xditview/xdit\_mask.bm  
src/devices/xditview/xditview.c

src/include/DviChar.h  
src/include/XFontName.h

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

```
tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me
```

## Hyphenation Patterns

-----

. The file ``tmac/hyphen.us'` is identical to the file ``hyphen.tex'`, part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames ``hyphen.<language>'`, e.g. ``hyphen.de'` or ``hyphen.uk'`.

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. The file ``tmac/hyphen.fr'` contains the same patterns as the file ``frhyph.tex'` (for TeX), which can be found at

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. The file ``tmac/hyphen.sv'` is identical to the file ``svhyph.tex'`, which can be found at

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. The files ``tmac/hyphen.det'` and ``tmac/hyphen.den'` contain the same patterns as the files ``dehypht-x-2017-03-31.pat'` and ``dehyphn-x-2017-03-31.pat'` (for TeX), respectively, which can be found at

<http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl>

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. The file `tmac/hyphen.cs' contains the same patterns as the file  
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```
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```

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<signature of Ty Coon>, 1 April 1989
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Ty Coon, President of Vice
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## 1.369 pcre 8.32 15.el7\_2.1

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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## 1.370 diffutils 3.3

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Version 3, 29 June 2007

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## 1.374 sqlite 3.7.14.1

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## 1.375 tiny-xml 0.9.5-5.3.e16

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## 1.376 libxi 1.7

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## 1.377 netbsd-resolv 2.17 196.el7\_4.2

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zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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Julian Seward, jseward@bzip.org  
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---  
abstract: 'Build and install Perl modules'  
author:  
- 'Ken Williams <kwilliams@cpan.org>'  
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."  
build\_requires:  
File::Temp: 0.15  
Test::Harness: 3.16  
Test::More: 0.49  
generated\_by: 'Module::Build version 0.3608'  
license: gpl  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Module-Build  
resources:  
MailingList: <mailto:module-build@perl.org>  
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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any later version.
```

```
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

```
That's all there is to it!
#!perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

```
Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.
```

If the test fails, update at least one of README and perl.c so that they match

reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

```
use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/= "";
    my $copyright_msg = <$readme>;
```

```
my ($year) = $copyright_msg =~ /\.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

$year;
}
```

```
sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}
```

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```

```
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## 1.382 gdbm 1.11

### 1.382.1 Available under license :

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```

```
# include "autoconf.h"  
# include "gdbmdefs.h"  
# include "gdbm.h"  
# include <sys/types.h>
```

```

#include <pwd.h>
#include <grp.h>

struct datbuf
{
    unsigned char *buffer;
    size_t size;
};

struct dump_file
{
    FILE *fp;
    size_t line;

    char *linebuf;
    size_t lsize;
    size_t llevel;

    char *buffer;
    size_t bufsize;
    size_t buflevel;

    size_t parm;

    struct datbuf data[2];
    char *header;
};

static void
dump_file_free (struct dump_file *file)
{
    free (file->linebuf);
    free (file->buffer);
    free (file->data[0].buffer);
    free (file->data[1].buffer);
    free (file->header);
}

static const char *
getparm (const char *buf, const char *parm)
{
    if (!buf)
        return NULL;
    while (*buf)
    {
        const char *p;
        for (p = parm; *p == *buf; p++, buf++)
            ;
    }
}

```

```

    if (*p == 0 && *buf == '=')
return buf + 1;
    buf += strlen (buf) + 1;
}
return NULL;
}

static size_t
get_dump_line (struct dump_file *file)
{
char buf[80];

if (file->lblevel == 0)
{
while (fgets (buf, sizeof buf, file->fp))
{
size_t n = strlen (buf);

if (buf[n-1] == '\n')
{
file->line++;
--n;
}

if (n + 1 + file->lblevel > file->lbsize)
{
size_t s = ((file->lblevel + n + _GDBM_MAX_DUMP_LINE_LEN)
/ _GDBM_MAX_DUMP_LINE_LEN)
* _GDBM_MAX_DUMP_LINE_LEN;
char *newp = realloc (file->linebuf, s);
if (!newp)
return GDBM_MALLOC_ERROR;
file->linebuf = newp;
file->lbsize = s;
}

memcpy (file->linebuf + file->lblevel, buf, n);
file->lblevel += n;
if (buf[n])
{
file->linebuf[file->lblevel] = 0;
break;
}
}
}
return file->lblevel;
}

```

```

static int
get_data (struct dump_file *file)
{
    size_t n;

    file->buflevel = 0;
    file->parmc = 0;

    while ((n = get_dump_line (file)))
    {
        if (file->linebuf[0] == '#')
            return 0;
        if (n + file->buflevel > file->bufsize)
        {
            size_t s = ((file->buflevel + n + _GDBM_MAX_DUMP_LINE_LEN - 1)
                / _GDBM_MAX_DUMP_LINE_LEN
                * _GDBM_MAX_DUMP_LINE_LEN);
            char *newp = realloc (file->buffer, s);
            if (!newp)
                return GDBM_MALLOC_ERROR;
            file->buffer = newp;
            file->bufsize = s;
        }
        memcpy (file->buffer + file->buflevel, file->linebuf, n);
        file->buflevel += n;
        file->lblevel = 0;
    }
    return ferror (file->fp) ? GDBM_FILE_READ_ERROR : 0;
}

```

```

static int
get_parms (struct dump_file *file)
{
    size_t n;

    file->buflevel = 0;
    file->parmc = 0;
    while ((n = get_dump_line (file)))
    {
        char *p;

        p = file->linebuf;
        if (*p != '#')
            return 0;
        if (n == 0 || *++p != ':')
        {
            file->lblevel = 0;
            continue;
        }
    }
}

```

```

}
  if (--n == 0)
  {
    file->llevel = 0;
    continue;
  }

  if (n + 1 + file->buflevel > file->bufsize)
  {
    size_t s = ((file->buflevel + n + _GDBM_MAX_DUMP_LINE_LEN)
      / _GDBM_MAX_DUMP_LINE_LEN)
      * _GDBM_MAX_DUMP_LINE_LEN;
    char *newp = realloc (file->buffer, s);
    if (!newp)
      return GDBM_MALLOC_ERROR;
    file->buffer = newp;
    file->bufsize = s;
  }

  while (*p)
  {
    p++;
    while (*p == ' ' || *p == '\t')
      p++;
    if (*p)
    {
      while (*p && *p != '=')
        file->buffer[file->buflevel++] = *p++;

      if (*p == '=')
      {
        file->buffer[file->buflevel++] = *p++;
        if (*p == "")
        {
          p++;
          while (*p && *p != "")
            file->buffer[file->buflevel++] = *p++;

          if (*p == "")
            p++;
        }
        else
        {
          while (!(*p == 0 || *p == ','))
            file->buffer[file->buflevel++] = *p++;
        }
        file->parmc++;
        file->buffer[file->buflevel++] = 0;
      }
    }
  }

```

```

    }
    else
return GDBM_ILLEGAL_DATA;
    }
    else
    break;
}
file->lblevel = 0;
}

file->buffer[file->buflevel] = 0;

return ferror (file->fp) ? GDBM_FILE_READ_ERROR : 0;
}

int
get_len (const char *param, size_t *plen)
{
    unsigned long n;
    const char *p = getparm (param, "len");
    char *end;

    if (!p)
        return GDBM_ITEM_NOT_FOUND;

    errno = 0;
    n = strtoul (p, &end, 10);
    if (*end == 0 && errno == 0)
    {
        *plen = n;
        return 0;
    }

    return GDBM_ILLEGAL_DATA;
}

int
read_record (struct dump_file *file, char *param, int n, datum *dat)
{
    int rc;
    size_t len, consumed_size, decoded_size;

    if (!param)
    {
        rc = get_parms (file);
        if (rc)
            return rc;
        if (file->parmc == 0)

```



```

return GDBM_ITEM_NOT_FOUND;
    param = file->buffer;
}
rc = get_len (param, &len);
if (rc)
    return rc;
dat->dsize = len; /* FIXME: data type mismatch */
rc = get_data (file);
if (rc)
    return rc;

rc = _gdbm_base64_decode ((unsigned char *)file->buffer, file->buflevel,
    &file->data[n].buffer, &file->data[n].size,
    &consumed_size, &decoded_size);
if (rc)
    return rc;
if (consumed_size != file->buflevel || decoded_size != len)
    return GDBM_ILLEGAL_DATA;
dat->dptr = (void*) file->data[n].buffer;
return 0;
}

#define META_UID 0x01
#define META_GID 0x02
#define META_MODE 0x04

static int
_set_gdbm_meta_info (GDBM_FILE dbf, char *param, int meta_mask)
{
    unsigned long n;
    uid_t owner_uid;
    uid_t owner_gid;
    mode_t mode;
    int meta_flags = 0;
    const char *p;
    char *end;
    int rc = 0;

    if (!(meta_mask & GDBM_META_MASK_OWNER))
    {
        p = getparm (param, "user");
        if (p)
        {
            struct passwd *pw = getpwnam (p);
            if (pw)
            {
                owner_uid = pw->pw_uid;
                meta_flags |= META_UID;
            }
        }
    }

```

```

    }
}

if (!(meta_flags & META_UID) && (p = getparm (param, "uid")))
{
    errno = 0;
    n = strtoul (p, &end, 10);
    if (*end == 0 && errno == 0)
    {
        owner_uid = n;
        meta_flags |= META_UID;
    }
}

p = getparm (param, "group");
if (p)
{
    struct group *gr = getgrnam (p);
    if (gr)
    {
        owner_gid = gr->gr_gid;
        meta_flags |= META_GID;
    }
}

if (!(meta_flags & META_GID) && (p = getparm (param, "gid")))
{
    errno = 0;
    n = strtoul (p, &end, 10);
    if (*end == 0 && errno == 0)
    {
        owner_gid = n;
        meta_flags |= META_GID;
    }
}
}

if (!(meta_mask & GDBM_META_MASK_MODE))
{
    p = getparm (param, "mode");
    if (p)
    {
        errno = 0;
        n = strtoul (p, &end, 8);
        if (*end == 0 && errno == 0)
        {
            mode = n & 0777;
            meta_flags |= META_MODE;
        }
    }
}

```

```

}
}

if (meta_flags)
{
    int fd = gdbm_fdesc (dbf);
    if (getuid () == 0 && (meta_flags & (META_UID|META_GID)))
    {
        if ((meta_flags & (META_UID|META_GID)) != (META_UID|META_GID))
        {
            struct stat st;
            fstat (fd, &st);
            if (!(meta_flags & META_UID))
            owner_uid = st.st_uid;
            if (!(meta_flags & META_GID))
            owner_gid = st.st_gid;
        }
        if (fchown (fd, owner_uid, owner_gid))
        {
            gdbm_errno = GDBM_ERR_FILE_OWNER;
            rc = 1;
        }
    }
    if ((meta_flags & META_MODE) && fchmod (fd, mode))
    {
        gdbm_errno = GDBM_ERR_FILE_OWNER;
        rc = 1;
    }
}
return rc;
}

```

```

int
_gdbm_load_file (struct dump_file *file, GDBM_FILE dbf, GDBM_FILE *ofp,
    int replace, int meta_mask)
{
    char *param = NULL;
    int rc;
    GDBM_FILE tmp = NULL;

    rc = get_parms (file);
    if (rc)
        return rc;

    if (file->parmc)
    {
        file->header = file->buffer;
        file->buffer = NULL;
    }
}

```

```

    file->bufsize = file->buflevel = 0;
}
else
    return GDBM_ILLEGAL_DATA;

if (!dbf)
{
    const char *filename = getparm (file->header, "file");
    if (!filename)
return GDBM_NO_DBNAME;
    tmp = gdbm_open (filename, 0,
        replace ? GDBM_WRCREAT : GDBM_NEWDB, 0600, NULL);
    if (!tmp)
return gdbm_errno;
    dbf = tmp;
}

param = file->header;
while (1)
{
    datum key, content;
    rc = read_record (file, param, 0, &key);
    if (rc)
{
    if (rc == GDBM_ITEM_NOT_FOUND && feof (file->fp))
        rc = 0;
    break;
}
    param = NULL;

    rc = read_record (file, NULL, 1, &content);
    if (rc)
break;

    if (gdbm_store (dbf, key, content, replace))
{
    rc = gdbm_errno;
    break;
}
}

if (rc == 0)
{
    rc = _set_gdbm_meta_info (dbf, file->header, meta_mask);
    *ofp = dbf;
}
else if (tmp)
    gdbm_close (tmp);

```

```

return rc;
}

static int
read_bdb_header (struct dump_file *file)
{
char buf[256];

file->line = 1;
if (!fgets (buf, sizeof (buf), file->fp))
return -1;
if (strcmp (buf, "VERSION=3\n"))
return -1;
while (fgets (buf, sizeof (buf), file->fp))
{
++file->line;
if (strcmp (buf, "HEADER=END\n") == 0)
return 0;
}
return -1;
}

static int
c2x (int c)
{
static char xdig[] = "0123456789abcdef";
char *p = strchr (xdig, c);
if (!p)
return -1;
return p - xdig;
}

#define DINCR 128

static int
xdatum_read (FILE *fp, datum *d, size_t *pdmax)
{
int c;
size_t dmax = *pdmax;

d->dsize = 0;
while ((c = fgetc (fp)) != EOF && c != '\n')
{
int t, n;

t = c2x (c);
if (t == -1)

```

```

return EOF;
    t <<= 4;

    if ((c = fgetc (fp)) == EOF)
break;

    n = c2x (c);
    if (n == -1)
return EOF;
    t += n;

    if (d->dsiz == dmax)
{
char *np = realloc (d->dptr, dmax + DINCR);
if (!np)
return GDBM_MALLOC_ERROR;
d->dptr = np;
dmax += DINCR;
}
d->dptr[d->dsiz++] = t;
}
*pdmax = dmax;
if (c == '\n')
return 0;
return c;
}

int
gdbm_load_bdb_dump (struct dump_file *file, GDBM_FILE dbf, int replace)
{
datum xd[2];
size_t xs[2];
int rc, c;
int i;

if (read_bdb_header (file))
return -1;
memset (&xd, 0, sizeof (xd));
xs[0] = xs[1] = 0;
i = 0;
while ((c = fgetc (file->fp)) == ' ')
{
rc = xdatum_read (file->fp, &xd[i], &xs[i]);
if (rc)
break;
++file->line;

if (i == 1)

```

```

{
    if (gdbm_store (dbf, xd[0], xd[1], replace))
        return gdbm_errno;
}
    i = !i;
}
//FIXME: Read "DATA=END"
free (xd[0].dptr);
free (xd[1].dptr);
if (rc == 0 && i)
    rc = EOF;

return rc;
}

int
gdbm_load_from_file (GDBM_FILE *pdbf, FILE *fp, int replace,
                    int meta_mask,
                    unsigned long *line)
{
    struct dump_file df;
    int rc;

    if (!pdbf || !fp)
        return EINVAL;

    /* Guess input file format */
    rc = fgetc (fp);
    ungetc (rc, fp);
    if (rc == '!')
        {
            if (line)
                *line = 0;
            if (!*pdbf)
                {
                    gdbm_errno = GDBM_NO_DBNAME;
                    return -1;
                }
            if (gdbm_import_from_file (*pdbf, fp, replace) == -1)
                return -1;
            return 0;
        }

    memset (&df, 0, sizeof df);
    df.fp = fp;

    if (rc == 'V')
        {

```

```

    if (!*pdbf)
    {
        gdbm_errno = GDBM_NO_DBNAME;
        return -1;
    }
    rc = gdbm_load_bdb_dump (&df, *pdbf, replace);
    }
else
    rc = _gdbm_load_file (&df, *pdbf, pdbf, replace, meta_mask);
dump_file_free (&df);
if (rc)
    {
        if (line)
        *line = df.line;
        gdbm_errno = rc;
        return -1;
    }
return 0;
}

int
gdbm_load (GDBM_FILE *pdbf, const char *filename, int replace,
           int meta_mask,
           unsigned long *line)
{
    FILE *fp;
    int rc;

    fp = fopen (filename, "r");
    if (!fp)
    {
        gdbm_errno = GDBM_FILE_OPEN_ERROR;
        return -1;
    }
    rc = gdbm_load_from_file (pdbf, fp, replace, meta_mask, line);
    fclose (fp);
    return rc;
}

```

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Version 3, 29 June 2007

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License Mixing

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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

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## GnuTLS

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#### ## libressl

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#### ## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

#### ## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.



## ## MIT Kerberos

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## ## Heimdal

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## ## GNU GSS

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## ## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## ## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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## 1.384 inetutils 1.9.2

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@c Local Variables:
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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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# 1.388 net-tools 1.60

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# 1.392 file 5.34

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```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
```



```

LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## End FreeBSD-specific setup

```

# 1.393 mtd-utils 1.5.1

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## 1.394 cairo 1.14.8-2.e17

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## History and License

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### History of the software

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.1.1	2.1+2.0.1	2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	
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Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and  
`:func:`getnameinfo``, which are coded in separate source files from the WIDE  
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MD5 message digest algorithm

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite

(section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.  
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.  
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version.

Asynchronous socket services

-----

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UUencode and UUdecode functions  
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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The `C` version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----

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test\_epoll

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Select kqueue

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-----

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
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#### Mersenne Twister

---

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Floating point exception control

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MD5 message digest algorithm

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.  
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.  
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version.

Asynchronous socket services

-----

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Cookie management

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## UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

#### XML Remote Procedure Calls

-----

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test\_epoll

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Select kqueue

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strtod and dtoa

-----

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zlib

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
```

```

* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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Most GNU software, including some libraries, is covered by the ordinary

GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on

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```
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# 1.404 unzip 6.0

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---

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---

### FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future

releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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```

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- \* MacBinaryIII.h
- \*
- \* Copyright 1997 Christopher Evans (cevens@poppybank.com)
- \*
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- \* MacBinary III spec.
- \* -----
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-----

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten



and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduced code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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```

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## 1.408 libestr 0.1.9-2.el7

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## 1.409 ntp 4.2.8p13

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45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  50. [54]Michael Shields <shields@tembel.org> USNO clock driver
  51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure  
makeover, various other bits (see the ChangeLog)
  53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase,  
Solaris issues
  57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing  
(libseccomp) support
  58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic  
TrueTime clock driver
  59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and  
validated HTML documents according to the HTML DTD
- 

## References

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63. mailto:%20Ulrich.Windl@rz.uni-regensburg.de  
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<link href="scripts/style.css" type="text/css" rel="stylesheet">  
</head>  
<body>  
<h3>Copyright Notice</h3>  
 "Clone me," says Dolly sheepishly.  
<p>Last update:  
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->



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- <li><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp &lt;phk@FreeBSD.ORG&gt;</a> Oncore driver (Original author)</li>
- <li><a href="http://www4.informatik.uni-erlangen.de/%7Ekardel">Frank Kardel</a> <a href="mailto:%20kardel%20%28at%29%20ntp%20%28dot%29%20org">&lt;kardel (at) ntp (dot) org&gt;</a> PARSE &lt;GENERIC&gt; (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>
- <li><a href="mailto:kuehn@ntp.org">Johannes Maximilian Kuehn &lt;kuehn@ntp.org&gt;</a> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntp saveconfig</tt></li>
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Saved a Lot of space on the stuff in the html/pic/ subdirectory</li>  
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port</li>  
<li><a href="mailto:%20shields@tembel.org">Michael Shields &lt;shields@tembel.org&gt;</a> USNO clock  
driver</li>  
<li><a href="mailto:%20pebbles.jpl.nasa.gov">Jeff Steinman &lt;jss@pebbles.jpl.nasa.gov&gt;</a> Datum PTS  
clock driver</li>  
<li><a href="mailto:%20harlan@pfcs.com">Harlan Stenn &lt;harlan@pfcs.com&gt;</a> GNU  
automake/autoconfigure makeover, various other bits (see the ChangeLog)</li>  
<li><a href="mailto:%20ken@sdd.hp.com">Kenneth Stone &lt;ken@sdd.hp.com&gt;</a> HP-UX port</li>  
<li><a href="mailto:%20ajit@ee.udel.edu">Ajit Thyagarajan &lt;ajit@ee.udel.edu&gt;</a> IP multicast/anycast  
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<li><a href="mailto:%20tsuruoka@nc.fukuoka-u.ac.jp">Tomoaki TSURUOKA &lt;tsuruoka@nc.fukuoka-  
u.ac.jp&gt;</a> TRAK clock driver</li>  
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General codebase, Solaris issues</li>  
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generic TrueTime clock driver</li>  
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regensburg.de&gt;</a> corrected and validated HTML documents according to the HTML DTD</li>  
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  date = "1992-2017";  
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  type = ntp;
```

```

};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version      = `
eval VERSION=\`sed -e 's/.*,\\[/]' -e 's^\\[.*/' < ../sntp/m4/version.m4`
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "; /* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//   sub-name = version;
//   sub-text = 's/#VERSION#/<<version>>/g';
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```
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```
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```

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## 1.414 qemu 2.4.0

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/\* \$OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp \$ \*/

/\* \$NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp \$ \*/

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\*

\* @(#)errno.h 8.5 (Berkeley) 1/21/94

\*/

```
#define TARGET_EPERM      1      /* Operation not permitted */
#define TARGET_ENOENT     2      /* No such file or directory */
#define TARGET_ESRCH     3      /* No such process */
#define TARGET_EINTR     4      /* Interrupted system call */
#define TARGET_EIO       5      /* Input/output error */
#define TARGET_ENXIO     6      /* Device not configured */
#define TARGET_E2BIG     7      /* Argument list too long */
#define TARGET_ENOEXEC   8      /* Exec format error */
#define TARGET_EBADF     9      /* Bad file descriptor */
#define TARGET_ECHILD   10     /* No child processes */
#define TARGET_EDEADLK  11     /* Resource deadlock avoided */
                                /* 11 was EAGAIN */
#define TARGET_ENOMEM   12     /* Cannot allocate memory */
#define TARGET_EACCES   13     /* Permission denied */
#define TARGET_EFAULT   14     /* Bad address */
#define TARGET_ENOTBLK  15     /* Block device required */
#define TARGET_EBUSY    16     /* Device busy */
#define TARGET_EEXIST    17     /* File exists */
#define TARGET_EXDEV    18     /* Cross-device link */
#define TARGET_ENODEV   19     /* Operation not supported by device */
#define TARGET_ENOTDIR  20     /* Not a directory */
#define TARGET_EISDIR   21     /* Is a directory */
#define TARGET_EINVAL   22     /* Invalid argument */
#define TARGET_ENFILE   23     /* Too many open files in system */
#define TARGET_EMFILE   24     /* Too many open files */
#define TARGET_ENOTTY   25     /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY  26     /* Text file busy */
#define TARGET_EFBIG    27     /* File too large */
#define TARGET_ENOSPC   28     /* No space left on device */
#define TARGET_ESPIPE   29     /* Illegal seek */
#define TARGET_EROFS    30     /* Read-only file system */
#define TARGET_EMLINK   31     /* Too many links */
#define TARGET_EPIPE    32     /* Broken pipe */

/* math software */
#define TARGET_EDOM     33     /* Numerical argument out of domain */
#define TARGET_ERANGE   34     /* Result too large */
```

```

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN      35      /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36      /* Operation now in progress */
#define TARGET_EALREADY 37      /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38      /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39    /* Destination address required */
#define TARGET EMSGSIZE 40      /* Message too long */
#define TARGET_EPROTOTYPE 41    /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42    /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45    /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46   /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47   /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48    /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49  /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50      /* Network is down */
#define TARGET_ENETUNREACH 51   /* Network is unreachable */
#define TARGET_ENETRESET 52    /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53  /* Software caused connection abort */
#define TARGET_ECONNRESET 54   /* Connection reset by peer */
#define TARGET_ENOBUFS 55      /* No buffer space available */
#define TARGET_EISCONN 56     /* Socket is already connected */
#define TARGET_ENOTCONN 57    /* Socket is not connected */
#define TARGET_ESHUTDOWN 58   /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEOUT 60    /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62      /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64   /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66  /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67    /* Too many processes */
#define TARGET_EUSERS 68     /* Too many users */
#define TARGET_EDQUOT 69     /* Disk quota exceeded */

/* Network File System */

```



```

#define TARGET_ESTALE      70      /* Stale NFS file handle */
#define TARGET_EREMOTE    71      /* Too many levels of remote in path */
#define TARGET_EBADRPC    72      /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73      /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74      /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75      /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76      /* Bad procedure for program */

#define TARGET_ENOLCK     77      /* No locks available */
#define TARGET_ENOSYS     78      /* Function not implemented */

#define TARGET_EFTYPE     79      /* Inappropriate file type or format */
#define TARGET_EAUTH      80      /* Authentication error */
#define TARGET_ENEEDAUTH  81      /* Need authenticator */
#define TARGET_EIPSEC     82      /* IPsec processing failure */
#define TARGET_ENOATTR    83      /* Attribute not found */
#define TARGET_EILSEQ     84      /* Illegal byte sequence */
#define TARGET_ENOMEDIUM  85      /* No medium found */
#define TARGET_EMEDIUMTYPE 86      /* Wrong Medium Type */
#define TARGET_EOVERFLOW  87      /* Conversion overflow */
#define TARGET_ECANCELED  88      /* Operation canceled */
#define TARGET_EIDRM      89      /* Identifier removed */
#define TARGET_ENOMSG     90      /* No message of desired type */
#define TARGET_ELAST      90      /* Must be equal largest errno */
\
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\*/

```
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{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
```

```

{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },

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{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %#o, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },

```

```
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writew, "writew", "%s(%d,%p,%#x)", NULL, NULL },
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */
```

```
/*
```

```
* System call numbers.
```

```
*
```

```
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
```

```
*/
```

```
#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
```



```

#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85

```

```

#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_ogethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138

```

```

#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_ogethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_oquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetdirenties 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirenties 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR_lseek 199
#define TARGET_NETBSD_NR_truncate 200
#define TARGET_NETBSD_NR_ftruncate 201
#define TARGET_NETBSD_NR___sysctl 202

```

```

#define TARGET_NETBSD_NR_mlock      203
#define TARGET_NETBSD_NR_munlock    204
#define TARGET_NETBSD_NR_undelete   205
#define TARGET_NETBSD_NR_futimes    206
#define TARGET_NETBSD_NR_getpgid    207
#define TARGET_NETBSD_NR_reboot     208
#define TARGET_NETBSD_NR_poll       209
#define TARGET_NETBSD_NR_compat_14__semctl 220
#define TARGET_NETBSD_NR_semget     221
#define TARGET_NETBSD_NR_semop      222
#define TARGET_NETBSD_NR_semconfig  223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget     225
#define TARGET_NETBSD_NR_msgsnd     226
#define TARGET_NETBSD_NR_msgrcv    227
#define TARGET_NETBSD_NR_shmat      228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt     230
#define TARGET_NETBSD_NR_shmget     231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep  240
#define TARGET_NETBSD_NR_fdatasync  241
#define TARGET_NETBSD_NR_mlockall   242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl     246
#define TARGET_NETBSD_NR_ksem_init  247
#define TARGET_NETBSD_NR_ksem_open  248
#define TARGET_NETBSD_NR_ksem_unlink 249
#define TARGET_NETBSD_NR_ksem_close 250
#define TARGET_NETBSD_NR_ksem_post  251
#define TARGET_NETBSD_NR_ksem_wait  252
#define TARGET_NETBSD_NR_ksem_trywait 253
#define TARGET_NETBSD_NR_ksem_getvalue 254
#define TARGET_NETBSD_NR_ksem_destroy 255
#define TARGET_NETBSD_NR_mq_open    257
#define TARGET_NETBSD_NR_mq_close   258
#define TARGET_NETBSD_NR_mq_unlink  259
#define TARGET_NETBSD_NR_mq_getattr 260
#define TARGET_NETBSD_NR_mq_setattr 261
#define TARGET_NETBSD_NR_mq_notify  262

```

```

#define TARGET_NETBSD_NR_mq_send 263
#define TARGET_NETBSD_NR_mq_receive 264
#define TARGET_NETBSD_NR_mq_timedsend 265
#define TARGET_NETBSD_NR_mq_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction14 291
#define TARGET_NETBSD_NR___sigpending14 292
#define TARGET_NETBSD_NR___sigprocmask14 293
#define TARGET_NETBSD_NR___sigsuspend14 294
#define TARGET_NETBSD_NR_compat_16___sigreturn14 295
#define TARGET_NETBSD_NR___getcwd 296
#define TARGET_NETBSD_NR_fchroot 297
#define TARGET_NETBSD_NR_compat_30_fhopen 298
#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR_____semctl13 301
#define TARGET_NETBSD_NR___msgctl13 302
#define TARGET_NETBSD_NR___shmctl13 303
#define TARGET_NETBSD_NR_lchflags 304
#define TARGET_NETBSD_NR_issetugid 305
#define TARGET_NETBSD_NR_utrace 306
#define TARGET_NETBSD_NR_getcontext 307
#define TARGET_NETBSD_NR_setcontext 308
#define TARGET_NETBSD_NR_lwp_create 309
#define TARGET_NETBSD_NR_lwp_exit 310
#define TARGET_NETBSD_NR_lwp_self 311
#define TARGET_NETBSD_NR_lwp_wait 312
#define TARGET_NETBSD_NR_lwp_suspend 313

```

```

#define TARGET_NETBSD_NR__lwp_continue 314
#define TARGET_NETBSD_NR__lwp_wakeup 315
#define TARGET_NETBSD_NR__lwp_getprivate 316
#define TARGET_NETBSD_NR__lwp_setprivate 317
#define TARGET_NETBSD_NR__lwp_kill 318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park 320
#define TARGET_NETBSD_NR__lwp_unpark 321
#define TARGET_NETBSD_NR__lwp_unpark_all 322
#define TARGET_NETBSD_NR__lwp_setname 323
#define TARGET_NETBSD_NR__lwp_getname 324
#define TARGET_NETBSD_NR__lwp_ctl 325
#define TARGET_NETBSD_NR_sa_register 330
#define TARGET_NETBSD_NR_sa_stacks 331
#define TARGET_NETBSD_NR_sa_enable 332
#define TARGET_NETBSD_NR_sa_setconcurrency 333
#define TARGET_NETBSD_NR_sa_yield 334
#define TARGET_NETBSD_NR_sa_preempt 335
#define TARGET_NETBSD_NR_sa_unblockyield 336
#define TARGET_NETBSD_NR__sigaction_sigtramp 340
#define TARGET_NETBSD_NR_pmc_get_info 341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl 343
#define TARGET_NETBSD_NR_kqueue 344
#define TARGET_NETBSD_NR_kevent 345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsycn_range 354
#define TARGET_NETBSD_NR_uuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371

```

```

#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
#define TARGET_NETBSD_NR_pollts 374
#define TARGET_NETBSD_NR_setxattr 375
#define TARGET_NETBSD_NR_lsetxattr 376
#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
#define TARGET_NETBSD_NR_fgetxattr 380
#define TARGET_NETBSD_NR_listxattr 381
#define TARGET_NETBSD_NR_llistxattr 382
#define TARGET_NETBSD_NR_flistxattr 383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR___stat30 387
#define TARGET_NETBSD_NR___fstat30 388
#define TARGET_NETBSD_NR___lstat30 389
#define TARGET_NETBSD_NR___getdents30 390
#define TARGET_NETBSD_NR_compat_30___fhstat30 392
#define TARGET_NETBSD_NR___ntp_gettime30 393
#define TARGET_NETBSD_NR___socket30 394
#define TARGET_NETBSD_NR___getfh30 395
#define TARGET_NETBSD_NR___fhopen40 396
#define TARGET_NETBSD_NR___fhstatvfs140 397
#define TARGET_NETBSD_NR___fhstat40 398
#define TARGET_NETBSD_NR_aio_cancel 399
#define TARGET_NETBSD_NR_aio_error 400
#define TARGET_NETBSD_NR_aio_fsync 401
#define TARGET_NETBSD_NR_aio_read 402
#define TARGET_NETBSD_NR_aio_return 403
#define TARGET_NETBSD_NR_aio_suspend 404
#define TARGET_NETBSD_NR_aio_write 405
#define TARGET_NETBSD_NR_lio_listio 406
#define TARGET_NETBSD_NR___mount50 410
#define TARGET_NETBSD_NR_mremap 411
#define TARGET_NETBSD_NR_pset_create 412
#define TARGET_NETBSD_NR_pset_destroy 413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR_pset_bind 415
#define TARGET_NETBSD_NR___posix_fadvise50 416
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\*  
\* @(#)mman.h 8.2 (Berkeley) 1/9/95  
\* \$FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp \$  
\*/

```
#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */  
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
```

```
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */  
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
```

```
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7
```

```
/* $NetBSD: mman.h,v 1.42 2008/11/18 22:13:49 ad Exp $ */
```

```
/*-
```

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\*

\* @(#)mman.h 8.2 (Berkeley) 1/9/95

\*/

```
#define TARGET_NETBSD_MAP_INHERIT    0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED   0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED      0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK      0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK   0x3ff7
```

```
/* $OpenBSD: mman.h,v 1.18 2003/07/21 22:52:19 tedu Exp $ */
```

```
/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */
```

```
/*-
```

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*   @(#)mman.h    8.1 (Berkeley) 6/2/93
*/
```

```
#define TARGET_OPENBSD_MAP_INHERIT    0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND   0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED   0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK   0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK       0x3ff7
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# Default configuration for i386-bsd-user

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=====

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# *****/

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS =
ASFLAGS = -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS = -UDEBUG -m64 -I. -I./include -I./include/x86emu \
-I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
-ffreestanding -Wall -Wno-unused

X86EMU_OBJS = debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

```

all: libx86emu.a

```
libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^
$(RANLIB) $@
```

clean:

```
$(RM) *.o *.i *.s libx86emu.a
```

distclean: clean

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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threshold for this to be true is not precisely defined by law.

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```
<one line to give the library's name and a brief idea of what it does.>  
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```

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

```
# Default configuration for sparc-bsd-user
```

```
/*
```

```
* FreeBSD strace list
```

```
*
```

```
*
```

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```

```
*/
```

```
{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
```



```

{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %#o, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
# *****
# * Copyright (c) 2004, 2008 IBM Corporation
# * All rights reserved.
# * This program and the accompanying materials
# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# *   IBM Corporation - initial implementation
# *****/
#!/bin/bash

#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

```

```
mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0
The files in this directory and elsewhere which refer to this LICENCE
file are part of JFFS2, the Journaling Flash File System v2.
```

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/\*

\* System call numbers.

\*

\* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723

\* 2012-01-06 19:29:16Z jhb

\*/

```
#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
```

```

#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
    /* 62 is old fstat */
    /* 63 is old getkerninfo */
    /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
    /* 67 is obsolete vread */

```



```

        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
        /* 76 is obsolete vhangup */
        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
        /* 87 is old gethostname */
        /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
        /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
        /* 101 is old send */
        /* 102 is old recv */
        /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
        /* 107 is obsolete vtimes */
        /* 108 is old sigvec */
        /* 109 is old sigblock */
        /* 110 is old sigsetmask */
        /* 111 is old sigsuspend */
        /* 112 is old sigstack */
        /* 113 is old recvmsg */
        /* 114 is old sendmsg */
        /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117

```

```

#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
    /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
    /* 129 is old truncate */
    /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
    /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
    /* 141 is old getpeername */
    /* 142 is old gethostid */
    /* 143 is old sethostid */
    /* 144 is old getrlimit */
    /* 145 is old setrlimit */
    /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
    /* 149 is old quota */
    /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
    /* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsyz 170
#define TARGET_FREEBSD_NR_shmsys 171

```

```

#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248

```

```

#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnx 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
    /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
    /* 322 is obsolete thr_sleep */
    /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326

```

```

#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387

```

```
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
```

```
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getaudit 447
#define TARGET_FREEBSD_NR_setaudit 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
```

```
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532
```

Index: debug.c

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
```

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- debug.c 7 Sep 2007 10:01:21 -0000 1.1

+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3

@@ -52,7 +52,11 @@



```

void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+       x86emu_dump_xregs();
+ } else {
+       x86emu_dump_regs();
+ }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
        for (i=0; i< M.x86.enc_pos; i++) {
            sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
        }
-       printk("%-20s",buf1);
+       printk("%-20s ",buf1);
    }
}

```

static void print\_decoded\_instruction (void)

Index: ops2.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3

@@ -149,8 +149,69 @@

```

        target += (s16) M.x86.R_IP;
        DECODE_PRINTF2("%04x\n", target);
        TRACE_AND_STEP();
-       if (cond)
+       if (cond) {
            M.x86.R_IP = (u16)target;
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+       }
+       DECODE_CLEAR_SEGOVR();
+       END_OF_INSTR();
+   }
+
+ /*****
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****/
+s32 x86emu_bswap(s32 reg)
+{

```

```

+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+ DECODE_PRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX\n");
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODE_PRINTF("ESI\n");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
+ case 0xcf:
+ DECODE_PRINTF("EDI\n");
+ M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ break;
+ }

```

```

+ TRACE_AND_STEP();
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c

```

```

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

```

```

retrieving revision 1.1

```

```

diff -u -u -r1.1 ops.c

```

```

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

```

```

+++ ops.c 20 Mar 2008 16:52:00 -0000

```

```

@@ -1061,7 +1061,11 @@

```

```

    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@

```

```

target = (u16)(M.x86.R_IP + (s16)offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
    M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {

```

```

@@ -2574,6 +2586,8 @@
    }
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+       if (M.x86.intr & INTR_HALTED)
+           break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);

```

```

    }
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

```

```

    while (count--) {
@@ -2795,6 +2826,8 @@
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX --;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX --;
+           else
+               M.x86.R_CX --;
            M.x86.R_SI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
-           /* move them until CX is ZERO. */
-           count = M.x86.R_CX;
+           /* move them until (E)CX is ZERO. */
+           count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
            M.x86.R_CX = 0;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX = 0;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
        while (count--) {
@@ -2871,6 +2911,8 @@
            M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        }
        M.x86.R_SI += inc;

```

```

+   if (M.x86.intr & INTR_HALTED)
+       break;
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
+   inc = 1;
+   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
+       /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
+           cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -- 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -- 1;
+           else
+               M.x86.R_CX -- 1;
+           M.x86.R_DI += inc;
+           if (ACCESS_FLAG(F_ZF) == 0)
+               break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
+       }
+       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
+       /* REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
+           cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -- 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -- 1;
+           else
+               M.x86.R_CX -- 1;
+           M.x86.R_DI += inc;
+           if (ACCESS_FLAG(F_ZF))
+               break; /* zero flag set means equal */
+           if (M.x86.intr & INTR_HALTED)
+               break;
+       }
+       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+   } else {

```



```

@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
        }
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
        }
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;    /* zero flag set means equal */

```

```

+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");

```

```

    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@

```

```

    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;

```

```

+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
    }
@@ -5013,12 +5093,14 @@
        break;
    case 4:      /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;
    case 5:      /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        M.x86.R_CS = destval2;

```

Index: prim\_ops.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim\_ops.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim\_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim\_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul\_long\_direct(u32 \*res\_lo, u32\* res\_hi, u32 d, u32 s)

```

{
#ifdef __HAS_LONG_LONG__
-   s64 res = (s64)d * (s64)s;
+   s64 res = (s64)(s32)d * (s64)(s32)s;

```

```

        *res_lo = (u32)res;
        *res_hi = (u32)(res >> 32);

```

@@ -2013,7 +2013,7 @@

void mul\_long(u32 s)

```

{
#ifdef __HAS_LONG_LONG__
-   u64 res = (u32)M.x86.R_EAX * (u32)s;
+   u64 res = (u64)M.x86.R_EAX * s;

```

```

        M.x86.R_EAX = (u32)res;
        M.x86.R_EDX = (u32)(res >> 32);

```

@@ -2312,16 +2312,15 @@

```

}

```

```

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* in until CX is ZERO. */
-   u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+   /* in until (E)CX is ZERO. */
+   u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
-
    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
    }
    M.x86.R_CX = 0;
-   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+   if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* out until CX is ZERO. */
-   u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+   /* out until (E)CX is ZERO. */
+   u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
-   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+   if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

```

Index: sys.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v

retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2

--- sys.c 7 Sep 2007 10:01:21 -0000 1.1

+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2

@@ -45,11 +45,6 @@

#include <x86emu/regs.h>

#include "debug.h"

```

#include "prim_ops.h"
#ifndef LINUXBIOS_VERSION
#include "io.h"
#else
#include <sys/io.h>
#endif

#ifdef IN_MODULE
#include "xf86_ansi.h"
@@ -220,7 +215,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inb %#04x \n", addr);
- return inb(addr);
+ return 0;
}

/*****
@@ -235,7 +230,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inw %#04x \n", addr);
- return inw(addr);
+ return 0;
}

/*****
@@ -250,7 +245,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inl %#04x \n", addr);
- return inl(addr);
+ return 0;
}

/*****
@@ -264,7 +259,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outb %#02x -> %#04x \n", val, addr);
- outb(val, addr);
return;
}

@@ -279,7 +273,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outw %#04x -> %#04x \n", val, addr);

```

```
- outw(val, addr);
return;
}
```

```
@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);)
```

```
- outl(val, addr);
return;
}
```

```
@@ -405,6 +397,6 @@
```

```
void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
  M.mem_size = size;
}
```

Index: include/x86emu/debug.h

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
```

retrieving revision 1.1

retrieving revision 1.4

diff -u -u -r1.1 -r1.4

--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1

+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4

```
@@ -40,8 +40,6 @@
```

```
#ifndef __X86EMU_DEBUG_H
```

```
#define __X86EMU_DEBUG_H
```

```
//#define DEBUG 0
```

```
#undef DEBUG
```

```
/*----- Macros and type definitions -----*/
```

```
/* checks to be enabled for "runtime" */
```

```
@@ -78,6 +76,8 @@
```

```
# define DEBUG_SYSINT()      (M.x86.debug & DEBUG_SYSINT_F)
```

```
# define DEBUG_TRACECALL()  (M.x86.debug & DEBUG_TRACECALL_F)
```

```
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
```

```
+# define DEBUG_TRACEJMP()   (M.x86.debug & DEBUG_TRACEJMP_F)
```

```
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
```

```
# define DEBUG_SYS()        (M.x86.debug & DEBUG_SYS_F)
```

```
# define DEBUG_MEM_TRACE()  (M.x86.debug & DEBUG_MEM_TRACE_F)
```

```
# define DEBUG_IO_TRACE()   (M.x86.debug & DEBUG_IO_TRACE_F)
```

```
@@ -96,6 +96,8 @@
```

```
# define DEBUG_SYSINT()      0
```



```

#define DEBUG_TRACECALL() 0
#define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS() 0
#define DEBUG_MEM_TRACE() 0
#define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
    x86emu_dump_regs();
    if (DEBUG_TRACECALL())
        printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
    if (DEBUG_TRACECALLREGS())
        x86emu_dump_regs();
    if (DEBUG_TRACECALL())
-   printk("%04x:%04x: %s\n",u,v,n);
+   printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+   if (DEBUG_TRACEJMPREGS()) \
+   x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+   printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
#define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000

```

```

#define SYSMODE_HALTED      0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS   |\
    SYSMODE_SEGOVR_SS   |\
    SYSMODE_PREFIX_DATA |\
-   SYSMODE_PREFIX_ADDR)
+   SYSMODE_PREFIX_ADDR  |\
+   SYSMODE_32BIT_REP)

#define INTR_SYNCH        0x1
#define INTR_ASYNCH       0x2
@@ -274,9 +278,9 @@
    */
    u32                mode;
    volatile int        intr; /* mask of pending interrupts */
- int                  debug;
+ volatile int         debug;
#ifdef DEBUG
- int                  check;
+ int                  check;
    u16                 saved_ip;
    u16                 saved_cs;
    int                 enc_pos;
Index: include/x86emu/x86emu.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F    0x010000
+#define DEBUG_TRACEJMP_F      0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F           (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);

```

```
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}          /* End of "C" linkage for C++  */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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Version 2.1, February 1999

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# Default configuration for x86\_64-bsd-user

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-- Wolfgang Denk

/\* \$OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp \$ \*/

/\*

\* System call numbers.

\*

\* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp

\*/

```
#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
```

```

#define TARGET_OPENBSD_NR_getuid    24
#define TARGET_OPENBSD_NR_geteuid  25
#define TARGET_OPENBSD_NR_ptrace   26
#define TARGET_OPENBSD_NR_recvmmsg 27
#define TARGET_OPENBSD_NR_sendmsg   28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept    30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access    33
#define TARGET_OPENBSD_NR_chflags   34
#define TARGET_OPENBSD_NR_fchflags  35
#define TARGET_OPENBSD_NR_sync      36
#define TARGET_OPENBSD_NR_kill      37
#define TARGET_OPENBSD_NR_getppid   39
#define TARGET_OPENBSD_NR_dup       41
#define TARGET_OPENBSD_NR_opipe     42
#define TARGET_OPENBSD_NR_getegid   43
#define TARGET_OPENBSD_NR_profil    44
#define TARGET_OPENBSD_NR_ktrace    45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid     47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin  49
#define TARGET_OPENBSD_NR_setlogin  50
#define TARGET_OPENBSD_NR_acct      51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl     54
#define TARGET_OPENBSD_NR_reboot    55
#define TARGET_OPENBSD_NR_revoke    56
#define TARGET_OPENBSD_NR_symlink   57
#define TARGET_OPENBSD_NR_readlink  58
#define TARGET_OPENBSD_NR_execve    59
#define TARGET_OPENBSD_NR_umask     60
#define TARGET_OPENBSD_NR_chroot    61
#define TARGET_OPENBSD_NR_vfork     66
#define TARGET_OPENBSD_NR_sbrk      69
#define TARGET_OPENBSD_NR_sstk      70
#define TARGET_OPENBSD_NR_munmap    73
#define TARGET_OPENBSD_NR_mprotect  74
#define TARGET_OPENBSD_NR_madvise   75
#define TARGET_OPENBSD_NR_mincore   78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp   81
#define TARGET_OPENBSD_NR_setpgid   82
#define TARGET_OPENBSD_NR_setitimer 83

```

```

#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187

```



```

#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286

```

```

#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrslp 300
#define TARGET_OPENBSD_NR_thrwake 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

```

```

/* syscall flags from machine/trap.h */

```

```

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

```

```

/*

```

```

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```

```

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```
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
```

```
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */
```

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```

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# Default configuration for sparc64-bsd-user

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=====

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David Gibson <david@gibson.dropbear.id.au>  
(principal original author of dtc and libfdt)  
2 November 2007

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```

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Stefan Reinauer

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```

```
# *****/
```

```
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules
```

```
SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)
```

```
all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$subdir || exit 1 ; done
```

```
# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$subdir $@ ; done
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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```

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```

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## THE BASIC LIBRARY FUNCTIONS

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.423 vim 7.4.160 1.e17

### 1.423.1 Available under license :

\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

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## SUMMARY

\*iccf\* \*ICCF\*

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<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

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<maintainer@vim.org>

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- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
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=====  
Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have

to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now

under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.  
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.  
Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353  
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.  
Postbank, nr. 4548774  
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:  
<http://iccf-holland.org/germany.html>



World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

/\*

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\*

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## 1.426 libnl3 1.1.4-3.el7

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## 1.428 libpcap 1.8.1

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## 1.429 libsgutils 1.37-12.e17

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.434 Irzsz 0.12.20



## 1.434.1 Available under license :

/\*

protname.c - return the name of the protocol used  
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\*/

```
#include "zglobal.h"
```

```
/* this code was duplicate in lrz.c and lsz.c */
```

```
const char *  
protname(void)  
{  
    const char *prot_name;  
    switch(protocol) {  
        case ZM_XMODEM:  
            prot_name="XMODEM";  
            break;  
        case ZM_YMODEM:  
            prot_name="YMODEM";  
            break;  
        default:  
            prot_name="ZMODEM";  
            break;  
    }  
    return prot_name;  
}
```

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That's all there is to it!

# 1.436 keyutils 1.5.8 3.el7

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# 1.437 libdrm 2.4.60

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## 1.441 gmp 6.1.2

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## 1.443 coreutils 8.30

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# 1.444 iptables 1.4.21

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## 1.445 tcl 8.5.9

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## 1.447 e2fsprogs 1.42.9

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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23-June-2007

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That's all there is to it!  
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
```

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell           2005
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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## 1.448 mtd-utils 1.5.2

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Upstream-Contact: Andy Cress <[arcress at users.sourceforge.net](mailto:arcress@users.sourceforge.net)>

Source: <http://ipmiutil.sourceforge.net>

<http://www.openmash.org/lxr/source/src/getopt.c?c=gsm>

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Upstream-Contact: Andy Cress <[arcress at users.sourceforge.net](mailto:arcress@users.sourceforge.net)>

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# 1.455 ncurses 6.1

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```
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```

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## 1.457 ethtool 3.9

### 1.457.1 Available under license :

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## 1.466 shared-mime-info 1.1

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</article>
```

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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////

[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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  </h3>
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  </p>
  <p class="copyright">
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</body>  
</html>

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That's all there is to it!

```
/* number.c: Implements arbitrary precision numbers. */  
/*
```

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```
#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h> /* Prototypes needed for external utility routines. */
```

```
#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory
```

```
_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));
```

```
/* Storage used for special numbers. */
```

```
bc_num _zero_;
bc_num _one_;
bc_num _two_;
```

```
static bc_num _bc_Free_list = NULL;
```

```
/* new_num allocates a number and sets fields to known values. */
```

```
bc_num
bc_new_num (length, scale)
    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
```

```

temp->n_ptr = (char *) malloc (length+scale);
if (temp->n_ptr == NULL) bc_out_of_memory();
temp->n_value = temp->n_ptr;
memset (temp->n_ptr, 0, length+scale);
return temp;
}

/* "Frees" a bc_num NUM.  Actually decreases reference count and only
   frees the storage if reference count is zero. */

```

```

void
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if ((*num)->n_refs == 0) {
        if ((*num)->n_ptr)
            free ((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}

```

```

/* Initialize the number package! */

```

```

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_ = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_ = bc_new_num (1,0);
    _two_->n_value[0] = 2;
}

```

```

/* Make a copy of a number!  Just increments the reference count! */

```

```

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}

```

```

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
   correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
    /* We can move n_value to point to the first non zero digit! */
    while (*num->n_value == 0 && num->n_len > 1) {
        num->n_value++;
        num->n_len--;
    }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
   than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
   compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
    char *n1ptr, *n2ptr;
    int count;

    /* First, compare signs. */
    if (use_sign && n1->n_sign != n2->n_sign)
    {
        if (n1->n_sign == PLUS)
            return (1); /* Positive N1 > Negative N2 */
        else
            return (-1); /* Negative N1 < Positive N1 */
    }
}

```

```

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
    if (n1->n_len > n2->n_len)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {

```

```

/* Magnitude of n1 < n2. */
if (!use_sign || n1->n_sign == PLUS)
    return (-1);
else
    return (1);
}
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
                {
                    /* Magnitude of n1 > n2. */
                    if (!use_sign || n1->n_sign == PLUS)
                        return (1);
                    else
                        return (-1);
                }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
            if (*n2ptr++ != 0)
                {
                    /* Magnitude of n1 < n2. */
                    if (!use_sign || n1->n_sign == PLUS)
                        return (-1);
                    else
                        return (1);
                }
    }
}

/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{

```

```

return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
    else
        return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
   Specifically, all but the last digit is 0 and the last digit is 1.
   Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

```

```

/* Error checking */
if (scale > num->n_scale)
    scale = num->n_scale;

/* Initialize */
count = num->n_len + scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0 && (count != 1 || *--nptr != 1))
    return FALSE;
else
    return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
    {
        sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
        for (count = scale_min - sum_scale; count > 0; count--)
            *sumptr++ = 0;
    }

    /* Start with the fraction part. Initialize the pointers. */

```

```

n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction.*/
if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
    { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes>n1bytes)
    { *sumptr-- = *n2ptr--; n2bytes--;}
}

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
}

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
{
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
}
else

```



```

carry = 0;
    sumptr--;
}

/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is
returned. The signs of N1 and N2 are ignored. Also, N1 is
assumed to be larger than N2. SCALE_MIN is the minimum scale
of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

    /* Allocate temporary storage. */
    diff_len = MAX (n1->n_len, n2->n_len);
    diff_scale = MAX (n1->n_scale, n2->n_scale);
    min_len = MIN (n1->n_len, n2->n_len);
    min_scale = MIN (n1->n_scale, n2->n_scale);
    diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > diff_scale)
    {
        diffptr = (char *) (diff->n_value + diff_len + diff_scale);
        for (count = scale_min - diff_scale; count > 0; count--)
            *diffptr++ = 0;
    }

    /* Initialize the subtract. */
    n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale - 1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale - 1);

```

```
diffptr = (char *) (diff->n_value + diff_len + diff_scale - 1);
```

```
/* Subtract the numbers. */
```

```
borrow = 0;
```

```
/* Take care of the longer scaled number. */
```

```
if (n1->n_scale != min_scale)
```

```
{
```

```
    /* n1 has the longer scale */
```

```
    for (count = n1->n_scale - min_scale; count > 0; count--)
```

```
*diffptr-- = *n1ptr--;
```

```
}
```

```
else
```

```
{
```

```
    /* n2 has the longer scale */
```

```
    for (count = n2->n_scale - min_scale; count > 0; count--)
```

```
{
```

```
    val = - *n2ptr-- - borrow;
```

```
    if (val < 0)
```

```
    {
```

```
        val += BASE;
```

```
        borrow = 1;
```

```
    }
```

```
    else
```

```
        borrow = 0;
```

```
    *diffptr-- = val;
```

```
}
```

```
}
```

```
/* Now do the equal length scale and integer parts. */
```

```
for (count = 0; count < min_len + min_scale; count++)
```

```
{
```

```
    val = *n1ptr-- - *n2ptr-- - borrow;
```

```
    if (val < 0)
```

```
{
```

```
    val += BASE;
```

```
    borrow = 1;
```

```
}
```

```
    else
```

```
borrow = 0;
```

```
    *diffptr-- = val;
```

```
}
```

```
/* If n1 has more digits than n2, we now do that subtract. */
```

```
if (diff_len != min_len)
```

```
{
```

```
    for (count = diff_len - min_len; count > 0; count--)
```

```

{
    val = *n1ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
    *diffptr-- = val;
}
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
}

```

/\* Here is the full subtract routine that takes care of negative numbers.  
N2 is subtracted from N1 and the result placed in RESULT. SCALE\_MIN  
is the minimum scale for the result. \*/

```

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    {
        diff = _bc_do_add (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        /* Compare magnitudes. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            diff = _bc_do_sub (n2, n1, scale_min);
            diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);

```

```

    break;
case 0:
    /* They are equal! return zero! */
    res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
    diff = bc_new_num (1, res_scale);
    memset (diff->n_value, 0, res_scale+1);
    break;
case 1:
    /* n2 is less than n1, subtract n2 from n1. */
    diff = _bc_do_sub (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
    break;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
   N1 is added to N2 and the result placed into RESULT. SCALE_MIN
   is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            sum = _bc_do_sub (n2, n1, scale_min);

```

```

sum->n_sign = n2->n_sign;
break;
case 0:
/* They are equal! return zero with the correct scale! */
res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
sum = bc_new_num (1, res_scale);
memset (sum->n_value, 0, res_scale+1);
break;
case 1:
/* n2 is less than n1, subtract n2 from n1. */
sum = _bc_do_sub (n1, n2, scale_min);
sum->n_sign = n1->n_sign;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;

```

```

temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = NULL;
temp->n_value = value;
return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
             int full_scale)
{
char *n1ptr, *n2ptr, *pvptr;
char *n1end, *n2end; /* To the end of n1 and n2. */
int indx, sum, prodlen;

prodlen = n1len+n2len+1;

*prod = bc_new_num (prodlen, 0);

n1end = (char *) (n1->n_value + n1len - 1);
n2end = (char *) (n2->n_value + n2len - 1);
pvptr = (char *) ((*prod)->n_value + prodlen - 1);
sum = 0;

/* Here is the loop... */
for (indx = 0; indx < prodlen-1; indx++)
{
n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
n2ptr = (char *) (n2end - MIN(indx, n2len-1));
while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
sum += *n1ptr-- * *n2ptr++;
*pvptr-- = sum % BASE;
sum = sum / BASE;
}
*pvptr = sum;
}

/* A special adder/subtractor for the recursive divide and conquer
multiply algorithm. Note: if sub is called, accum must
be larger than what is being subtracted. Also, accum and val
must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
signed char *accp, *valp;
int count, carry;

```

```

count = val->n_len;
if (val->n_value[0] == 0)
    count--;
assert (accum->n_len+accum->n_scale >= shift+count);

/* Set up pointers and others */
accp = (signed char *)(accum->n_value +
    accum->n_len + accum->n_scale - shift - 1);
valp = (signed char *)(val->n_value + val->n_len - 1);
carry = 0;

if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
        *accp -= *valp-- + carry;
        if (*accp < 0) {
            carry = 1;
            *accp-- += BASE;
        } else {
            carry = 0;
        }
        accp--;
    }
    while (carry) {
        *accp -= carry;
        if (*accp < 0)
            *accp-- += BASE;
        else
            carry = 0;
    }
} else {
    /* Addition */
    while (count--) {
        *accp += *valp-- + carry;
        if (*accp > (BASE-1)) {
            carry = 1;
            *accp-- -= BASE;
        } else {
            carry = 0;
        }
        accp--;
    }
    while (carry) {
        *accp += carry;
        if (*accp > (BASE-1))
            *accp-- -= BASE;
        else
            carry = 0;
    }
}

```

```

}
}
}

```

/\* Recursive divide and conquer multiply algorithm.

Based on

Let  $u = u_0 + u_1 \cdot (b^n)$

Let  $v = v_0 + v_1 \cdot (b^n)$

Then  $uv = (B^{2n+B^n}) \cdot u_1 \cdot v_1 + B^n \cdot (u_1 - u_0) \cdot (v_0 - v_1) + (B^{n+1}) \cdot u_0 \cdot v_0$

B is the base of storage, number of digits in  $u_1, u_0$  close to equal.

\*/

static void

```

_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
            int full_scale)

```

```

{

```

```

    bc_num u0, u1, v0, v1;

```

```

    int u0len, v0len;

```

```

    bc_num m1, m2, m3, d1, d2;

```

```

    int n, prodlen, m1zero;

```

```

    int d1len, d2len;

```

```

    /* Base case? */

```

```

    if ((ulen+vlen) < mul_base_digits

```

```

        || ulen < MUL_SMALL_DIGITS

```

```

        || vlen < MUL_SMALL_DIGITS ) {

```

```

        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);

```

```

        return;

```

```

    }

```

```

    /* Calculate n -- the u and v split point in digits. */

```

```

    n = (MAX(ulen, vlen)+1) / 2;

```

```

    /* Split u and v. */

```

```

    if (ulen < n) {

```

```

        u1 = bc_copy_num (_zero_);

```

```

        u0 = new_sub_num (ulen, 0, u->n_value);

```

```

    } else {

```

```

        u1 = new_sub_num (ulen-n, 0, u->n_value);

```

```

        u0 = new_sub_num (n, 0, u->n_value+ulen-n);

```

```

    }

```

```

    if (vlen < n) {

```

```

        v1 = bc_copy_num (_zero_);

```

```

        v0 = new_sub_num (vlen, 0, v->n_value);

```

```

    } else {

```

```

        v1 = new_sub_num (vlen-n, 0, v->n_value);

```

```

        v0 = new_sub_num (n, 0, v->n_value+vlen-n);

```

```

    }

```



```

_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */

```

```

bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

```

```

/* The multiply routine. N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
*/

```

```

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

    /* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

    /* Assign to prod and clean up the number. */
    pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
    pval->n_value = pval->n_ptr;
    pval->n_len = len2 + len1 + 1 - full_scale;
    pval->n_scale = prod_scale;
    _bc_rm_leading_zeros (pval);
    if (bc_is_zero (pval))
        pval->n_sign = PLUS;
    bc_free_num (prod);
    *prod = pval;
}

```

```

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT. It is written so that NUM and RESULT can be

```

the same pointers. \*/

```
static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
        {
            if (digit == 1)
                memcpy (result, num, size);
            else
                {
                    /* Initialize */
                    nptr = (unsigned char *) (num+size-1);
                    rptr = (unsigned char *) (result+size-1);
                    carry = 0;

                    while (size-- > 0)
                        {
                            value = *nptr-- * digit + carry;
                            *rptr-- = value % BASE;
                            carry = value / BASE;
                        }

                    if (carry != 0) *rptr = carry;
                }
        }
}
```

```
/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */
```

```
int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
```

```

unsigned char *num1, *num2;
unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
int scale1, val;
unsigned int len1, len2, scale2, qdigits, extra, count;
unsigned int qdig, qguess, borrow, carry;
unsigned char *mval;
char zero;
unsigned int norm;

/* Test for divide by zero. */
if (bc_is_zero (n2)) return -1;

/* Test for divide by 1. If it is we must truncate. */
if (n2->n_scale == 0)
{
    if (n2->n_len == 1 && *n2->n_value == 1)
    {
        qval = bc_new_num (n1->n_len, scale);
        qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
        memset (&qval->n_value[n1->n_len],0,scale);
        memcpy (qval->n_value, n1->n_value,
            n1->n_len + MIN(n1->n_scale,scale));
        bc_free_num (quot);
        *quot = qval;
    }
}

/* Set up the divide. Move the decimal point on n1 by n2's scale.
Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);

```

```

*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{
    qdigits = scale+1;
    zero = TRUE;
}
else
{
    zero = FALSE;
    if (len2>len1)
qdigits = scale+1; /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
}

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
    else
qptr = (unsigned char *) qval->n_value;

```

```

/* Loop */
while (qdig <= len1+scale-len2)
{
/* Calculate the quotient digit guess. */
if (*n2ptr == num1[qdig])
    qguess = 9;
else
    qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

/* Test qguess. */
if (n2ptr[1]*qguess >
    (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
    + num1[qdig+2])
    {
        qguess--;
        /* And again. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
            qguess--;
    }

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
    {
        *mval = 0;
        _one_mult (n2ptr, len2, qguess, mval+1);
        ptr1 = (unsigned char *) num1+qdig+len2;
        ptr2 = (unsigned char *) mval+len2;
        for (count = 0; count < len2+1; count++)
        {
            val = (int) *ptr1 - (int) *ptr2-- - borrow;
            if (val < 0)
                {
                    val += 10;
                    borrow = 1;
                }
            else
                borrow = 0;
            *ptr1-- = val;
        }
    }

/* Test for negative result. */
if (borrow == 1)
    {

```

```

    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)

```

```

    bc_num num1, num2, *quot, *rem;
    int scale;
{
bc_num quotient = NULL;
bc_num temp;
int rscale;

/* Check for correct numbers. */
if (bc_is_zero (num2)) return -1;

/* Calculate final scale. */
rscale = MAX (num1->n_scale, num2->n_scale+scale);
bc_init_num(&temp);

/* Calculate it. */
bc_divide (num1, num2, &temp, scale);
if (quot)
    quotient = bc_copy_num (temp);
bc_multiply (temp, num2, &temp, rscale);
bc_sub (num1, temp, rem, rscale);
bc_free_num (&temp);

if (quot)
{
    bc_free_num (quot);
    *quot = quotient;
}

return 0; /* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
placed in RESULT. If a EXPO is not an integer,
only the integer part is used. */

int

```



```

bc_raise_mod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

    /* Set initial values. */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

    /* Check the base for scale digits. */
    if (base->n_scale != 0)
        bc_rt_warn ("non-zero scale in base");

    /* Check the exponent for scale digits. */
    if (exponent->n_scale != 0)
    {
        bc_rt_warn ("non-zero scale in exponent");
        bc_divide (exponent, _one_, &exponent, 0); /*truncate */
    }

    /* Check the modulus for scale digits. */
    if (mod->n_scale != 0)
        bc_rt_warn ("non-zero scale in modulus");

    /* Do the calculation. */
    rscale = MAX(scale, base->n_scale);
    while ( !bc_is_zero(exponent) )
    {
        (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
        if ( !bc_is_zero(parity) )
        {
            bc_multiply (temp, power, &temp, rscale);
            (void) bc_modulo (temp, mod, &temp, scale);
        }

        bc_multiply (power, power, &power, rscale);
        (void) bc_modulo (power, mod, &power, scale);
    }

    /* Assign the value. */

```

```

bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
Maximum exponent is LONG_MAX. If a NUM2 is not an integer,
only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    bc_num temp, power;
    long exponent;
    int rscale;
    int pwrscale;
    int calcscale;
    char neg;

    /* Check the exponent for scale digits and convert to a long. */
    if (num2->n_scale != 0)
        bc_rt_warn ("non-zero scale in exponent");
    exponent = bc_num2long (num2);
    if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
        bc_rt_error ("exponent too large in raise");

    /* Special case if exponent is a zero. */
    if (exponent == 0)
    {
        bc_free_num (result);
        *result = bc_copy_num (_one_);
        return;
    }

    /* Other initializations. */
    if (exponent < 0)
    {
        neg = TRUE;
        exponent = -exponent;
        rscale = scale;
    }
    else
    {
        neg = FALSE;

```

```

    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
calcscale = pwrscale + calcscale;
bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
(*result)->n_scale = rscale;
}
bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
after the decimal place. */

int

```

```

bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
int rscale, cmp_res, done;
int cscale;
bc_num guess, guess1, point5, diff;

/* Initial checks. */
cmp_res = bc_compare (*num, _zero_);
if (cmp_res < 0)
    return 0; /* error */
else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
    }
cmp_res = bc_compare (*num, _one_);
if (cmp_res == 0)
    {
        bc_free_num (num);
        *num = bc_copy_num (_one_);
        return 1;
    }

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
    {
        /* The number is between 0 and 1. Guess should start at 1. */
        guess = bc_copy_num (_one_);
        cscale = (*num)->n_scale;
    }
else
    {
        /* The number is greater than 1. Guess should start at 10^(exp/2). */

```

```

bc_int2num (&guess,10);

bc_int2num (&guess1,(*num)->n_len);
bc_multiply (guess1, point5, &guess1, 0);
guess1->n_scale = 0;
bc_raise (guess, guess1, &guess, 0);
bc_free_num (&guess1);
cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
bc_free_num (&guess1);
guess1 = bc_copy_num (guess);
bc_divide (*num, guess, &guess, cscale);
bc_add (guess, guess1, &guess, 0);
bc_multiply (guess, point5, &guess, cscale);
bc_sub (guess, guess1, &diff, cscale+1);
if (bc_is_near_zero (diff, cscale))
{
if (cscale < rscale+1)
cscale = MIN (cscale*3, rscale+1);
else
done = TRUE;
}
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess,_one_,num,rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
long digit;
struct stk_rec *next;
} stk_rec;

```

```

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is
non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (' ');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
        (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;

```

```

{
char *nptr;
int index, fdigit, pre_space;
stk_rec *digits, *temp;
bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

/* The negative sign if needed. */
if (num->n_sign == MINUS) (*out_char) ('-');

/* Output the number. */
if (bc_is_zero (num))
    (*out_char) ('0');
else
    if (o_base == 10)
        {
/* The number is in base 10, do it the fast way. */
nptr = num->n_value;
if (num->n_len > 1 || *nptr != 0)
    for (index=num->n_len; index>0; index--)
        (*out_char) (BCD_CHAR(*nptr++));
else
    nptr++;

if (leading_zero && bc_is_zero (num))
    (*out_char) ('0');

/* Now the fraction. */
if (num->n_scale > 0)
    {
    (*out_char) ('. ');
    for (index=0; index<num->n_scale; index++)
        (*out_char) (BCD_CHAR(*nptr++));
    }
    }
else
    {
/* special case ... */
if (leading_zero && bc_is_zero (num))
    (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one_, &int_part, 0);
bc_init_num (&frac_part);
bc_init_num (&cur_dig);
bc_init_num (&base);
bc_sub (num, int_part, &frac_part, 0);

```

```

/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide (int_part, base, &int_part, 0);
}

/* Print the digits on the stack. */
if (digits != NULL)
{
    /* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
        digits = digits->next;
        if (o_base <= 16)
            (*out_char) (ref_str[ (int) temp->digit]);
        else
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
        free (temp);
    }
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('. ');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)

```



```

(*out_char) (ref_str[fdigit]);
    else {
bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
pre_space = 1;
    }
    bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
    long val;
    char *nptr;
    int index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS)
        return (val);
    else
        return (-val);
}

```

```
/* Convert an integer VAL to a bc number NUM. */
```

```
void
```

```
bc_int2num (num, val)
```

```
    bc_num *num;
```

```
    int val;
```

```
{
```

```
    char buffer[30];
```

```
    char *bptr, *vptr;
```

```
    int ix = 1;
```

```
    char neg = 0;
```

```
/* Sign. */
```

```
if (val < 0)
```

```
{
```

```
    neg = 1;
```

```
    val = -val;
```

```
}
```

```
/* Get things going. */
```

```
bptr = buffer;
```

```
*bptr++ = val % BASE;
```

```
val = val / BASE;
```

```
/* Extract remaining digits. */
```

```
while (val != 0)
```

```
{
```

```
    *bptr++ = val % BASE;
```

```
    val = val / BASE;
```

```
    ix++; /* Count the digits. */
```

```
}
```

```
/* Make the number. */
```

```
bc_free_num (num);
```

```
*num = bc_new_num (ix, 0);
```

```
if (neg) (*num)->n_sign = MINUS;
```

```
/* Assign the digits. */
```

```
vptr = (*num)->n_value;
```

```
while (ix-- > 0)
```

```
    *vptr++ = *--bptr;
```

```
}
```

```
/* Convert a numbers to a string. Base 10 only.*/
```

```
char
```

```
*num2str (num)
```

```

    bc_num num;
{
char *str, *sptr;
char *nptr;
int index, signch;

/* Allocate the string memory. */
signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
if (num->n_scale > 0)
    str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
else
    str = (char *) malloc (num->n_len + 1 + signch);
if (str == NULL) bc_out_of_memory();

/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
}

/* Terminate the string and return it! */
*sptr = '\0';
return (str);
}
/* Convert strings to bc numbers. Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

/* Prepare num. */

```

```

bc_free_num (num);

/* Check for valid number and count digits. */
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ((*ptr == '+') || (*ptr == '-')) ptr++; /* Sign */
while (*ptr == '0') ptr++; /* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++; /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
{
    *num = bc_copy_num (_zero_);
    return;
}

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
    digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

```

```

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
    *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
    printf ("\n");
}

```

## 1.471 libconfig 1.7.2

## 1.471.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: ls-config

Source: <https://github.com/lucas-net-pl/ls-config>

Files: \*

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@t{

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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
}
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```

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```

```
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# 1.474 e2fsprogs 1.42.9-7.el7

## 1.474.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#

# This is a Makefile stub which handles the creation of BSD shared libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Theodore Ts'o  
23-June-2007

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Index: tdbsa/tdb.c

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--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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This is the Debian GNU/Linux prepackaged version of the `ss` command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# 1.475 gawk 4.2.1

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# 1.476 ncurses 5.9 13.20130511.e17

## 1.476.1 Available under license :

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# 1.481 ipmi-tool 1.8.11

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# 1.482 apache 2.4.43

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```
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
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<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
```

This file is generated from xml source: DO NOT EDIT

XX

X

```
-->
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<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;</a></p>
</div>
```

```
<p class="centered">Apache License<br />
Version 2.0, January 2004<br />
<a href="http://www.apache.org/licenses/">http://www.apache.org/licenses/</a><br /><br />
```

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</div>

</div>

<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

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class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be
pointed towards suggestions on improving the documentation or server, and may be removed by our moderators if
they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache HTTP Server
should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
href="https://httpd.apache.org/lists.html">mailing lists</a></div>
<script type="text/javascript"><!--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
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    d.write('<div id="comments_thread"><\div>');
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    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
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  else {
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<p class="apache">Copyright 2020 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a></p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
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```

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

\*/

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## 1.483.1 Available under license :

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

# 1.484 dhcp 4.2.5 42.el7.centos

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Automated Testing Framework

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.



Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp:

These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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<!-- \$Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```
<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '#10;'))"/>
  <xsl:text>#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
  <xsl:if test="translate($rest, '#9;#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
```

```
<xsl:variable name="isc.copyright.text">
  <xsl:text>
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```
</xsl:text>
</xsl:variable>
```

```
<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
```

```

<xsl:call-template name="copyright.years">
  <xsl:with-param name="years" select="year"/>
</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
<xsl:text>#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->

```

# 1.485 json-c 0.11 4.e17\_0

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Go support for Protocol Buffers - Google's data interchange format

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```
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Bundled Libraries:

\*\*\*\*\* Base 64 Library (base64/base64.hpp) \*\*\*\*\*

base64.hpp is a repackaging of the base64.cpp and base64.h files into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012. All modifications to the code are redistributed under the same license as the original, which is listed below.

base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

\*\*\*\*\* SHA1 Library (sha1/sha1.hpp) \*\*\*\*\*

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L. Peter Deutsch  
[ghost@aladdin.com](mailto:ghost@aladdin.com)

\*\*\*\*\* UTF8 Validation logic (utf8\_validation.hpp) \*\*\*\*\*

utf8\_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <[bjoern@hoehrmann.de](mailto:bjoern@hoehrmann.de)>. See <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/> for details.

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## 1.490 glibc 2.17-106.el7\_2.8

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`pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file`

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# 1.492 libuser 0.60

## 1.492.1 Available under license :

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\*

```

*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/*
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

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\* @version 3.0 (December 2000)

\*

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\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
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/\* OPENBSD ORIGINAL: sys/sys/poll.h \*/

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;
```

```
typedef unsigned int nfds_t;
```

```
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM (-1) /* not standard */
```

```
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
```

# 1.504 gettext libc version

## 1.504.1 Available under license :

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Version 2.1, February 1999

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## @subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

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@item

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@item

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice



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@heading Appendix: How to Apply These Terms to Your New Programs

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@end smallexample

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@example

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@var{signature of Ty Coon}, 1 April 1989



Ty Coon, President of Vice  
@end example

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## 1.505 open-ldap 2.4.40-9.el7\_2

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/\* \$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp \$ \*/

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*/

```

```

/* OPENBSD ORIGINAL: sys/sys/poll.h */

```

```

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

```

```

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

```

```

typedef unsigned int nfds_t;

```

```

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

```

```

#define INFTIM (-1) /* not standard */

```

```

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
diff -up openssh-6.6p1/sftp-server.8.sftp-force-mode openssh-6.6p1/sftp-server.8
--- openssh-6.6p1/sftp-server.8.sftp-force-mode 2013-10-15 03:07:05.000000000 +0200
+++ openssh-6.6p1/sftp-server.8 2015-04-20 14:04:47.427562510 +0200
@@ -38,6 +38,7 @@
.Op Fl P Ar blacklisted_requests
.Op Fl p Ar whitelisted_requests
.Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
.Ek
.Nm
.Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@ Sets an explicit
.Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
For logging to work,
diff -up openssh-6.6p1/sftp-server.c.sftp-force-mode openssh-6.6p1/sftp-server.c
--- openssh-6.6p1/sftp-server.c.sftp-force-mode 2015-04-20 14:04:47.420562526 +0200
+++ openssh-6.6p1/sftp-server.c 2015-04-20 14:07:13.799231025 +0200
@@ -71,6 +71,10 @@ static Buffer oqueue;
/* Version of client */
static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* SSH2_FXP_INIT received */
static int init_done;

@@ -675,6 +679,10 @@ process_open(u_int32_t id)
a = get_attrib();
flags = flags_from_portable(pflags);
mode = (a->flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a->perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ (void)umask(0); /* so umask does not interfere */
+ }

```

```

logit("open \"%s\" flags %s mode 0%o",
      name, string_from_portable(pflags), mode);
if (readonly &&
@@ -1430,7 +1438,7 @@ sftp_server_usage(void)
fprintf(stderr,
      "usage: %s [-ehR] [-d start_directory] [-f log_facility] "
      "[-l log_level]\n\t[-P blacklisted_requests] "
-   "[-p whitelisted_requests] [-u umask]\n"
+   "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
      "   %s -Q protocol_feature\n",
      __progname, __progname);
exit(1);
@@ -1455,7 +1463,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
-   "d:f:l:P:p:Q:u:cehR")) != -1) {
+   "d:f:l:P:p:Q:u:m:cehR")) != -1) {
    switch (ch) {
    case 'Q':
        if (strcasecmp(optarg, "requests") != 0) {
@@ -1515,6 +1523,15 @@ sftp_server_main(int argc, char **argv,
        fatal("Invalid umask \"%s\"", optarg);
        (void)umask((mode_t)mask);
        break;
+   case 'm':
+       /* Force permissions on file received via sftp */
+       permforce = 1;
+       permforcemode = strtol(optarg, &cp, 8);
+       if (permforcemode < 0 || permforcemode > 0777 ||
+           *cp != '\0' || (permforcemode == 0 &&
+               errno != 0))
+           fatal("Invalid file mode \"%s\"", optarg);
+       break;
    case 'h':
    default:
        sftp_server_usage();
/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

/*
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```

```
*/
```

```
#ifndef HAVE_SETRESGID
```

```
int setresgid(gid_t, gid_t, gid_t);
```

```
#endif
```

```
#ifndef HAVE_SETRESUID
```

```
int setresuid(uid_t, uid_t, uid_t);
```

```
#endif
```

```
/* $Id: BSD-Waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */
```

```
/*
```

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```

```
*
```

```
*/
```

```
#ifndef _BSD_WAITPID_H
```

```
#define _BSD_WAITPID_H
```

```
#ifndef HAVE_WAITPID
```

```
/* Clean out any potential issues */
```

```
#undef WIFEXITED
```

```
#undef WIFSTOPPED
```

```
#undef WIFSIGNALED
```

```
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
```

```
/* Prototype */
```

```
pid_t waitpid(int, int *, int);
```

```
#endif /* !HAVE_WAITPID */
```

```
#endif /* _BSD_WAITPID_H */
```

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## 1.513 libassuan 2.1.2

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/\* assuan-buffer.c - read and send data

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\*/

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Version 3, 29 June 2007

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# 1.519 curl 7.66.0

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License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

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(Used for compressed Transfer-Encoding support) Uses an MIT-style license

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#### ## GNU GSS

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#### ## libssh2

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Tom St Denis

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=====

loginrec.c  
loginrec.h  
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atomicio.c  
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## 1.521 libdaemon 0.14-7.el7

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Version 2.1, February 1999

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# ElementTree

# \$Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik \$

#

# limited xinclude support for element trees

#

# history:

# 2003-08-15 fl created

# 2003-11-14 fl fixed default loader

#

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# fredrik@pythonware.com

# <http://www.pythonware.com>

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```
#-----  
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#  
# Description: A reimplementaion of the standard shelve.py that  
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#  
# Creation Date: 11/3/97 3:39:04PM  
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Mersenne Twister

-----

The :mod:'\_random' module includes code based on a download from <http://www.math.keio.ac.jp/matumoto/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto:matumoto@math.keio.ac.jp)

Sockets

-----

The `:mod:'socket'` module uses the functions, `:func:'getaddrinfo'`, and `:func:'getnameinfo'`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Floating point exception control

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-----  
MD5 message digest algorithm  
-----

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);  
added conditionalization for C++ compilation from Martin  
Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version.

#### Asynchronous socket services

-----

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UUencode and UUdecode functions  
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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-----

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test\_epoll

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Select kqueue

-----

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/\* -----

unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).

Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)

Modified by Martin v. L"wis (martin@v.loewis.de)

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# -- Gregory P. Smith <greg@krypto.org>
#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
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#
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#
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# other compatibility work.
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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```
# Original version written by Greg Stein (gstein@lyra.org)
#           and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
#
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""" robotparser.py
```

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\*/

#

# Name: CP1140

# Unicode version: 3.2

# Table version: 1.0

# Table format: Format A

# Date: 2005-10-25

# Authors: Marc-Andre Lemburg <mal@egenix.com>

#

# This encoding is a modified CP037 encoding (with added Euro  
# currency sign).

#

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#

# Based on the file

```
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/* -----
ia64_flags.h - Copyright (c) 2000 Hewlett Packard Company
```

IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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# subprocess - Subprocesses with accessible I/O streams

#

# For more information about this module, see PEP 324.

#

# This module should remain compatible with Python 2.2, see PEP 291.

#

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# '\$echo "\$cfgfile" | sed 's%^.\*/%%' - Provide generalized library-building support services.

# Generated automatically by \$PROGRAM (GNU \$PACKAGE \$VERSION\$TIMESTAMP)

# NOTE: Changes made to this file will be lost: look at ltmain.sh.

#

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# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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#

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```
-----
-- abs.decTest -- decimal absolute value --
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-----
```

```
/* Random objects */
```

```
/* -----
The code in this module was based on a download from:
http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html
```

It was modified in 2002 by Raymond Hettinger as follows:

\* the principal computational lines untouched except for tabbing.

\* renamed `genrand_res53()` to `random_random()` and wrapped

in python calling/return code.

\* `genrand_int32()` and the helper functions, `init_genrand()` and `init_by_array()`, were declared static, wrapped in Python calling/return code. also, their global data references were replaced with structure references.

\* unused functions from the original were deleted.  
new, original C python code was added to implement the `Random()` interface.

The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto:matumoto@math.keio.ac.jp)

\*/

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
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```

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The End

## 1.528 zlib 1.2.8

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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## 1.529 kmod 25+git0+aca4eca103

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## 1.535 gnutls 3.3.5

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```
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## version 0.1  
##  
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## 1.541 sysstat 8.1.2

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.542 libpcap 1.6.1

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## 1.545 fuse 2.9.0

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Version 2, June 1991

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```
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```

```
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```

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```

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```
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<signature of Ty Coon>, 1 April 1989  
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```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

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# 1.546 nettle 2.7.1

# 1.546.1 Available under license :

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## 1.547 diffutils 3.6

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## 1.550 libcap 2.22

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/\* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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## 1.556 libdaemon 0.14

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h
```

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meintro\_fr.me  
doc/meref.me

## Hyphenation Patterns

-----

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

<http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex> .

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehypht-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

<http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl>

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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## 1.569 pciutils 3.3.1

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the `Boost.Process` library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the `Buildtool` project. They were later adapted to be part of `Boost.Process` and, during that process, the shell script was created.

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<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '#10;'))"/>

<xsl:text>#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '#10;')"/>

<xsl:if test="translate(\$rest, '#9;#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
  <xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>
```

<!--

- Local variables:  
- mode: sgml  
- End:

-->

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## 1.572 augeas 1.2.0

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## 1.574 mdadm 3.3.1

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<one line to give the program's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.575 libseccomp 2.3.3

### 1.575.1 Available under license :

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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## 1.576 cracklib 2.9.0-11.e17

### 1.576.1 Available under license :

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=

=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=

eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =

a=20

library to dictact to application writes what license they should be using.=

=20

thus LGPL-2.1 enters to fill this void.

=20mike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro

maintainers to get together with Alec in a conversation and come to a

decision as to what licensing scheme y'all want. I haven't really done

much other than cleaning up the packaging and patches and a small bit of



additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:  
> > I understand that, and you're welcome to bring it up with Alec  
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> unlike the old license, GPL-2 prevents people from using cracklib  
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> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a

> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

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timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

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Nathan Neulinger is the only one who can actually make said change ...

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id I1cOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>

> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

This package was debianized by Jean Pierre LeJacq  
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt  
<martin@piware.de> was the package's maintainer up to version  
2.7.19-1. The current maintainer is Jan Dittberner  
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,  
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,  
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux  
distribution or on the World Wide Web at  
<http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also  
obtain it by writing to the Free Software Foundation, Inc., 51  
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic  
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licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-----

-----

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license  
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thus LGPL-2.1 enters to fill this void.  
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Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46  
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Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
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Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
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To: Nathan Neulinger <nneul@neulinger.org>  
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> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

## GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

### Preamble

The licenses for most software are designed to take away your  
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free software--to make sure the software is free for all its users.

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can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations  
below.

When we speak of free software, we are referring to freedom of use,  
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it in new free programs; and that you are informed that you can do  
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

^L

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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It was downloaded from <http://www.hyperrealm.com/libconfig>

Upstream Author: Mark A Lindner

Mark Lindner - Lead developer & maintainer.

Daniel Marjamdki - Enhancements & bugfixes.

Andrew Tytula - Windows Port.

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`@c \input texinfo.tex @c -*texinfo-*`

`@c`

`@c %**start of header`

`@c` All text is ignored before the setfilename.

`@setfilename LGPL.info`

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`@center Version 2.1, February 1999`

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a



derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@center END OF TERMS AND CONDITIONS

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@center How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@format

@t{

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

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}

@end format

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

```
@format
```

```
@t{
```

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
}
```

```
@end format
```

That's all there is to it!

```
@c @bye
```

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Version 2.1, February 1999

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

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Adler, Mark  
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Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
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Bates, Tom  
Behan, Zdenk  
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Benali, Elias  
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Boardman, Spider  
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Bowes, Keith  
Boyce, Keith Garry  
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Wood, David  
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The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho

Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
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## 1.581 libx11 1.6.4

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# 1.585 procps 3.3.10-16.e17

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# 1.587 tcl 8.4.19

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# 1.588 xmlsec 1.2.26

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## References

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\* AOL

<http://www.aleksey.com/pipermail/xmlsec/2003/005488.html>

<http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm>

\* Cordys R&D BV

<http://www.aleksey.com/pipermail/xmlsec/2003/005581.html>

\* Cryptocom LTD

<http://www.aleksey.com/pipermail/xmlsec/2006/007410.html>

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# 1.589 libjpeg 8d

## 1.589.1 Available under license :

The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018

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This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

## DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW            General description of JPEG and the IJG software.  
LEGAL ISSUES        Copyright, lack of warranty, terms of distribution.  
REFERENCES         Where to learn more about JPEG.  
ARCHIVE LOCATIONS  Where to find newer versions of this software.

ACKNOWLEDGMENTS Special thanks.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.  
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,  
rdjpgcom, and wrjpgcom.  
\*.1 Unix-style man pages for programs (same info as usage.txt).  
wizard.txt Advanced usage instructions for JPEG wizards only.  
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.  
example.c Sample code for calling the JPEG library.  
structure.txt Overview of the JPEG library's internal structure.  
filelist.txt Road map of IJG files.  
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included

considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

## REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression,

applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org). The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsr9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](http://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

#### ACKNOWLEDGMENTS

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Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the [ijg.org](http://ijg.org) site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

#### FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies.

IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force

convergence on common, interoperable format standards for JPEG files.  
Don't use an incompatible file format!  
(In any case, our decoder will remain capable of reading existing JPEG  
image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

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The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.



A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

## 1.590 openssl 1.0.2j

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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must



be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.592 systemd 219-19.el7\_2.13

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is

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Version 3, 29 June 2007

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.598 linux-kernel 4.9.170

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```
#ifndef __LICENSE_H
```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{  
    return (strcmp(license, "GPL") == 0  
        || strcmp(license, "GPL v2") == 0  
        || strcmp(license, "GPL and additional rights") == 0  
        || strcmp(license, "Dual BSD/GPL") == 0  
        || strcmp(license, "Dual MIT/GPL") == 0  
        || strcmp(license, "Dual MPL/GPL") == 0);  
}
```

#endif

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## Contributors

=====

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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- Michael Hunold <m.hunold@gmx.de>
  - for the initial saa7146 driver and its recent overhaul
- Christian Theiss
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  - for his contributions to the dvb-net driver
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  - for CyberLogin for Linux which allows logging onto EON (in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
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  - for his LIRC infrared handler

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- Michael Krufky <mkrufky@linuxtv.org>
- for maintaining v4l/dvb inter-tree dependencies
- Taylor Jacob <rtjacob@earthlink.net>
- for the nxt2002 frontend driver
- Jean-Francois Thibert <jeanfrancois@sagetv.com>
- for the nxt2004 frontend driver
- Kirk Lapray <kirk.lapray@gmail.com>
- for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

```

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*

```

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
\*  
\* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
\* see init\_nicstar() for PHY initialization to change this. This driver  
\* expects the Linux ATM stack to support scatter-gather lists  
\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
\*  
\* Implementing minimal-copy of received data:  
\* IDT always receives data into a small buffer, then large buffers  
\* as needed. This means that data must always be copied to create  
\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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@c ispell-local-pdict: "ispell-dict"

@c End:

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Version 2.1, February 1999

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<one line to give the program's name and a brief idea of what it does.>

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```
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```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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The End

## 1.601 kmod 20 21.e17

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Version 2.1, February 1999

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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This package was debianized by Christopher L Cheney <ccheney@debian.org> on Wed, 21 Nov 2001 15:51:14 -0600.

It was downloaded from <http://www.ibiblio.org/pub/Linux/system/hardware>

Upstream Author: Mark S. Lord <mlord@pobox.com>

Copyright:

```
/* hdparm.c - Command line interface to get/set hard disk parameters */
/*          - by Mark Lord 1994-2008 -- freely distributable */
```

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