Open Source Used In Callisto_PSIRT 1.3.2

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In your requests please include the following reference number 78EE117C99-1135209700

Contents

1.1 libmodelgbp beryllium-sr1 r0
   1.1.1 Available under license
1.2 pciutils 3.6.2 r0
   1.2.1 Available under license
1.3 c-ares 1.15.0 r0
   1.3.1 Available under license
1.4 jsonschema 2.5.1
   1.4.1 Available under license
1.5 libatomic-ops 7.6.8 r0
   1.5.1 Available under license
1.6 pyaes 1.0
   1.6.1 Available under license
1.7 python-pyopenssl 18.0.0 r0
   1.7.1 Available under license
1.8 libmicrohttpd 0.9.59 r0
   1.8.1 Available under license
1.9 boost 1.68.0 r0
   1.9.1 Available under license
1.10 libwebsockets 2.1.0
   1.10.1 Available under license
1.11 docker 18.03.0 r0
   1.11.1 Available under license
1.12 python-pytest 3.4.2 r0
   1.12.1 Available under license
1.13 six 1.6.1
   1.13.1 Available under license
1.14 python-enum 1.0.4
1.14.1 Available under license
1.15 page-types 1.0 r0
1.16 python-ipy 0.83 r0
1.16.1 Available under license
1.17 perl 5.24.4 r0
1.17.1 Available under license
1.18 pyopenssl 16.2.0
1.18.1 Available under license
1.19 augeas 1.10.1 r0
1.19.1 Available under license
1.20 python-six 1.11.0 r0
1.20.1 Available under license
1.21 selinux-gui 2.8 r0
1.21.1 Available under license
1.22 log4javascript 1.4.1
1.22.1 Available under license
1.23 python-enum 1.1.6 r0
1.23.1 Available under license
1.24 log-rotate 3.14.0 r0
1.24.1 Available under license
1.25 picocom 2.2+gitAUTOINC+deffd18c24 r0
1.25.1 Available under license
1.26 libgpg-error 1.32 r0
1.26.1 Available under license
1.27 libmspack 0.5alpha r0
1.27.1 Available under license
1.28 cryptography 1.7.1
1.28.1 Available under license
1.29 dnsmasq 2.79 r0
1.29.1 Available under license
1.30 update-rc-d 0.8 r0
1.31 wireshark 2.6.10 r0
1.31.1 Available under license
1.32 python3-gevent 1.2.2 r0
1.32.1 Available under license
1.33 python-cffi 1.11.5 r0
1.33.1 Available under license
1.34 go-systemd 4 r0
1.34.1 Available under license
1.35 futures 2.1.6
1.35.1 Available under license
1.36 dojo-toolkit 1.4.2
1.36.1 Available under license
1.37 bluez 5.48 r0
1.37.1 Available under license
1.38 compose-file 3.0 r0
1.38.1 Available under license
1.39 ccid 1.4.24 r0
1.39.1 Available under license
1.40 systemd 239 r0
1.41 fribidi 1.0.5 r0
1.41.1 Available under license
1.42 gmp 6.1.2 r0
1.42.1 Available under license
1.43 python-ply 3.11 r0
1.44 netbase 5.4 r0
1.44.1 Available under license
1.45 bootstrap 3.3.6
1.45.1 Available under license
1.46 autoconf-archive 2018.03.13 r0
1.46.1 Available under license
1.47 tipc-utils 2.2.0 r0
1.48 dbus-test 1.12.10 r0
1.48.1 Available under license
1.49 cjson 1.7.10 r0
1.49.1 Available under license
1.50 systemtap 4.0 r0
1.50.1 Available under license
1.51 ca-certificates 20190110 r0
1.52 libaio 0.3.111 r0
1.53 ntp 4.2.8p13 r0
1.53.1 Available under license
1.54 bzip2 1.0.6 r5
1.54.1 Available under license
1.55 python-idna 2.7 r0
1.55.1 Available under license
1.56 python-pluggy 0.6.0 r0
<table>
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<th>Version</th>
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1.79 shadow 4.6 r0
1.79.1 Available under license
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1.81 lmsensors-config 1.0 r0
1.81.1 Available under license
1.82 dmidecode 3.1 r0
1.82.1 Available under license
1.83 cryptsetup 2.0.4 r0
1.83.1 Available under license
1.84 dtc 1.4.7 r0
1.85 util-linux 2.32.1 r0
1.85.1 Available under license
1.86 initscripts 1.0 r155
1.86.1 Available under license
1.87 yajl 2.1.0 r0
1.87.1 Available under license
1.88 o-profile 1.3.0 r0
1.88.1 Available under license
1.89 zlib 1.2.11 r0
1.89.1 Available under license
1.90 glib 2.58.0 r0
1.90.1 Available under license
1.91 gnome-desktoptesting 2014.1 r1
1.91.1 Available under license
1.92 containerd-opencontainers v1.0.3 r0
1.92.1 Available under license
1.93 selinux-dbus 2.8 r0
1.93.1 Available under license
1.94 harfbuzz 1.8.8 r0
1.94.1 Available under license
1.95 python-pip 18.0 r0
1.95.1 Available under license
1.96 pango 1.42.4 r0
1.96.1 Available under license
1.97 klish 2.1.4
1.97.1 Available under license
1.98 less 530 r0
   1.98.1 Available under license
1.99 gettext 0.19.8.1 r0
   1.99.1 Available under license
1.100 pixman 0.34.0 r0
   1.100.1 Available under license
1.101 liberation-fonts 2.00.1 r0
   1.101.1 Available under license
1.102 notary 0.4.2 r0
   1.102.1 Available under license
1.103 python 2.7.16 r1
   1.103.1 Available under license
1.104 smartmontools 6.5 r0
   1.104.1 Available under license
1.105 which 2.21 r3
   1.105.1 Available under license
1.106 rapidjson 1.0.0
   1.106.1 Available under license
1.107 expat 2.2.6 r0
   1.107.1 Available under license
1.108 libdaemon 0.14 r0
   1.108.1 Available under license
1.109 unzip 6.0 r5
   1.109.1 Available under license
1.110 libmnl 1.0.4 r0
   1.110.1 Available under license
1.111 systemd-compat-units 1.0 r29
1.112 lxc 3.1.0 r0
   1.112.1 Available under license
1.113 libgudev 232 r0
   1.113.1 Available under license
1.114 go-dbus 4.0.0 r0
   1.114.1 Available under license
1.115 python3-pyudev 0.21.0 r0
   1.115.1 Available under license
1.116 libuv 1.20.3 r0
   1.116.1 Available under license
1.117 libevent 2.1.8 r0
   1.117.1 Available under license
1.118 data-tables 1.10.15
   1.118.1 Available under license
1.119 libselinux 2.8 r0
   1.119.1 Available under license
1.120 pbjson f964368ba18ca38133ea786fd206010b02ccdaf7
   1.120.1 Available under license
1.121 nfs-utils 2.3.1 r0
   1.121.1 Available under license
1.122 systemd-bootchart 233 r0
1.123 make 4.2.1 r0
   1.123.1 Available under license
1.124 hd-parm 9.56 r0
   1.124.1 Available under license
1.125 alivepdf 0.1.5.RC
   1.125.1 Available under license
1.126 pps-tools 1.0.2 r0
1.127 parted 3.2 r1
   1.127.1 Available under license
1.128 intltool 0.51.0 r0
   1.128.1 Available under license
1.129 m4 1.4.18 r0
   1.129.1 Available under license
1.130 lz4 1.8.2 r0
   1.130.1 Available under license
1.131 shadow-sysroot 4.6 r3
1.132 traceroute 2.1.0 r0
   1.132.1 Available under license
1.133 libroxml 2.3.0 r0
   1.133.1 Available under license
1.134 libnls3 3.4.0 r0
   1.134.1 Available under license
1.135 nspr 4.19 r0
   1.135.1 Available under license
1.136 flexdateutils 1.0.8.0
   1.136.1 Available under license
1.137 python-greenlet 0.4.14 r0
   1.137.1 Available under license
1.138 python-py 1.6.0 r0
   1.138.1 Available under license
1.139 python-mimeparse 0.1.4
  1.139.1 Available under license
1.140 i2c-tools 4.1 r0
  1.140.1 Available under license
1.141 volatile-binds 1.0 r0
  1.141.1 Available under license
1.142 go-patricia 2.2.6 r0
  1.142.1 Available under license
1.143 vim 8.1.0347 r0
  1.143.1 Available under license
1.144 pep8 1.4.6
1.145 cffi 1.9.1
  1.145.1 Available under license
1.146 tipcconfig 2.0.6 r0
1.147 pyformance 0.3.4
  1.147.1 Available under license
1.148 attr 2.4.47 r0
  1.148.1 Available under license
1.149 libunistring 0.9.10 r0
  1.149.1 Available under license
1.150 makedumpfile 1.6.5 r0
  1.150.1 Available under license
1.151 libpam 1.3.0 r5
  1.151.1 Available under license
1.152 gpt-fdisk 1.0.4 r0
  1.152.1 Available under license
1.153 libnsl2 1.2.0 r0
1.154 python 3.5.6 r1.0
  1.154.1 Available under license
1.155 file 5.34 r0
  1.155.1 Available under license
1.156 e2fsprogs 1.42.99+1.43+gitAUTOINC+0f26747167 r0
  1.156.1 Available under license
1.157 libuio 0.2.1 r0
1.158 numactl 2.0.12 r0
1.159 setserial 2.17 r3
  1.159.1 Available under license
1.160 gflags 2.2.0 r0
  1.160.1 Available under license
1.161 python-pycrypto 2.6.1 r0
   1.161.1 Available under license
1.162 checkpolicy 2.8 r0
   1.162.1 Available under license
1.163 libedit 20180525-3.1 r0
   1.163.1 Available under license
1.164 gnutls 3.6.4 r0
   1.164.1 Available under license
1.165 falcon 0.1.8
1.166 selinux-policy 2.20170204 r0
   1.166.1 Available under license
1.167 rsync 3.1.3 r0
   1.167.1 Available under license
1.168 pam 0.1.4
1.169 lm-sensors 3.4.0 r0
   1.169.1 Available under license
1.170 qemu 3.0.0 r0
   1.170.1 Available under license
1.171 libgcrypt 1.8.4 r0
   1.171.1 Available under license
1.172 procps 3.3.15 r0
   1.172.1 Available under license
1.173 ebtables 2.0.10-4 r4
   1.173.1 Available under license
1.174 mailx 12.5-5 r0
   1.174.1 Available under license
1.175 d-bus 1.12.10 r0
   1.175.1 Available under license
1.176 libcap 2.25 r0
   1.176.1 Available under license
1.177 strace 4.24 r0
   1.177.1 Available under license
1.178 libgpiod 1.2 r0
   1.178.1 Available under license
1.179 python-ipaddress 1.0.22 r0
   1.179.1 Available under license
1.180 ethtool 4.19 r0
   1.180.1 Available under license
1.181 devmem2 1.0 r7
1.182 go-fsnotify 1.2.11 r0
   1.182.1 Available under license
1.183 sed 4.2.2 r0
   1.183.1 Available under license
1.184 busybox 1.29.3 r0
   1.184.1 Available under license
1.185 readline 7.0 r0
   1.185.1 Available under license
1.186 cantarell-fonts 0.0.25 r0
   1.186.1 Available under license
1.187 nettle 3.4 r0
   1.187.1 Available under license
1.188 libunwind 1.2.1 r0
   1.188.1 Available under license
1.189 libxlst 1.1.32 r0
   1.189.1 Available under license
1.190 liburcu 0.10.1 r0
   1.190.1 Available under license
1.191 libsepol 2.8 r0
   1.191.1 Available under license
1.192 shadow-securetty 4.6 r3
1.193 sg3-utils 1.42 r0
   1.193.1 Available under license
1.194 python-pycparser 2.14 1.el7
   1.194.1 Available under license
1.195 go-capability 0.0 r0
   1.195.1 Available under license
1.196 tftp-hpa 5.2 r0
   1.196.1 Available under license
1.197 mockito 0.5.2
   1.197.1 Available under license
1.198 gnulib 2017-08-20.18 r0
   1.198.1 Available under license
1.199 libarchive 3.3.3 r0
   1.199.1 Available under license
1.200 python3-pycrypto 2.6.1 r0
   1.200.1 Available under license
1.201 cracklib 2.9.5 r0
   1.201.1 Available under license
1.202 python-pretend 1.0.9 r0
   1.202.1 Available under license
1.203 grpc-go 1.4.0 r0
   1.203.1 Available under license
1.204 libnss-mdns 0.10 r7
   1.204.1 Available under license
1.205 keyutils 1.5.10 r0
   1.205.1 Available under license
1.206 squashfs-tools 4.3+gitAUTOINC+9c1db6d13a r0
   1.206.1 Available under license
1.207 python-gevent 1.0b1 r0
   1.207.1 Available under license
1.208 libnewt 0.52.20 r0
   1.208.1 Available under license
1.209 libusb 1.0.22 r0
   1.209.1 Available under license
1.210 libyaml 0.2.1 r0
   1.210.1 Available under license
1.211 pyflakes 0.7.3
   1.211.1 Available under license
1.212 binutils 2.31.1 r0
1.213 go-connections 0.2.1 r0
   1.213.1 Available under license
1.214 selinux-python 2.8 r0
   1.214.1 Available under license
1.215 python-pyserial 3.4 r0
   1.215.1 Available under license
1.216 bridgeutils 1.6 r0
1.217 idna 2.1
   1.217.1 Available under license
1.218 findutils 4.6.0 r0
   1.218.1 Available under license
1.219 cpp 8.2.0 r0
   1.219.1 Available under license
1.220 flex 2.6.0 r0
   1.220.1 Available under license
1.221 bluez-tools 0.2.0 r0
   1.221.1 Available under license
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<th>Package</th>
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1.2 pciutils 3.6.2 r0

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1.5 libatomic-ops 7.6.8 r0

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

1.9 boost 1.68.0 r0
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

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using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }

<!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 &amp;#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
<link rel="stylesheet" href="../static/boostbook.css" type="text/css" />
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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT: '../',
    VERSION: '0.6',
    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>
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</head>
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<td align="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../static/boost.png"></td>
</tr>
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#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstdint>

namespace boost {
namespace intrusive {
namespace detail {
using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::offsetof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;
template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMLPL(TNAME)     
  template<typename T>                                          
  struct boost_intrusive_has_type_ ## TNAME                      
  {                                                              
    template<typename X>                                       
    static char test(int, typename X::TNAME*);                  
    
    template<typename X>                                       
    static int test(...);                                       
    
    static const bool value = (1 == sizeof(test<T>(0, 0)));     
  };                                                             

  template<typename T, typename DefaultType>                    
  struct boost_intrusive_default_type_ ## TNAME                  
  {                                                              
    struct DefaultWrap { typedef DefaultType TNAME; };          
    
    typedef typename                                            
      ::boost::intrusive::detail::if_c                         
      < boost_intrusive_has_type_ ## TNAME<T>::value        
        , T, DefaultWrap::type::TNAME type;                  
  };                                                             

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   
  typename INSTANTIATION_NS_PREFIX                                                       
    boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type                            

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//
#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  
   INSTANTIATION_NS_PREFIX    
    boost_intrusive_has_type_ ## TNAME< T >::value    
//
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\  
    template <typename T, typename DefaultType>    
    struct boost_intrusive_eval_default_type_ ## TNAME     
    {                                                
      template <typename X>                        
      static char test(int, typename X::TNAME*);      
                                                                     
      template <typename X>                        
      static int test(...);                        
                                                                     
      static const bool value = (1 == sizeof(test<T>(0, 0)));   
                                                                     
      typedef typename                                  
         ::boost::intrusive::detail::eval_if_c          
            < value                                       
             , ::boost::intrusive::detail::identity<T>    
             , ::boost::intrusive::detail::identity<DefaultWrap>  
             >::type::TNAME type;                        
    };                                               
//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,  
TNAME, TIMPL) \  
   typename INSTANTIATION_NS_PREFIX                                                          
   boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type                          
//
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,  
TYPEDEF_TO_FIND)\  
    template <class T>                       
    struct TRAITS_PREFIX##_bool               
    {                                          
      template<bool Add>                      
       struct two_or_three {yes_type _[2 + Add];};\     
      template <class U> static yes_type test(...);\     
      template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\     
      static const std::size_t value = sizeof(test<T>(0));\     
    }\ 

```cpp
//
//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
template<typename U, typename Signature> class TRAITS_NAME 
{ 
private:  
template<Signature> struct helper;  
template<typename T> 
static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); 
template<typename T> static ::boost::intrusive::detail::no_type test(...); 
public: 
static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); 
}; 
//
//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) 
template<typename Type> 
struct TRAITS_NAME 
{ 
struct BaseMixin 
{ 
 void FUNC_NAME(); 
}; 
struct Base : public Type, public BaseMixin { Base(); }; 
template<typename T, T t> class Helper{}; 
template<typename U> 
static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(()), &U::FUNC_NAME>* = 0); 
static ::boost::intrusive::detail::yes_type test(...); 
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); 
}; 
//
//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
//
//
```
namespace intrusive
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#else //BOOST_INTRUSIVE_DETAIL_MPL_HPP
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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an `integral_constant` type.

Please note that these types no longer inherit from `true_` or `false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

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[quickbook 1.5]
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var group__group_ext_mpl =
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  [ "list", "structboost_1_1mpl_1_1list.html", null ],
  [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t {
};

using vector = mpl_vector((1..input_size).to_a.map { [n] "t<#{n}>" }) %;

int main() {

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//@
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//@  http://www.boost.org/LICENSE_1_0.txt)
//@
//@
//@
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/mpl.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;

}}}
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    {  return x.first;   }

    template<class T>
    type& operator()(T& x)
    {  return const_cast<type&>(x.first);   }
};

template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
static const bool value = true;
};
template <typename C, typename K, typename R>
struct enable_if_transparent
: boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};

} //namespace dtl {
} //namespace container {
} //namespace boost {
#include <boost/container/detail/config_end.hpp>
#endif //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
<!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><no title> &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
<link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
URL_ROOT: './',
VERSION: '0.6',
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="index" title="Index" href="genindex.html" />
<link rel="search" title="Search" href="search.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>

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#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };


            }}}

#endif // !defined(BOOST_INTERPROCESS_DETAIL_MPL_HPP)

#ifdef BOOST_CONFIG_HPP
    #include <boost/config.hpp>
#endif

#endif // !defined(BOOST_HAS_PRAGMA_ONCE)

#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };


        }}}

#endif // !defined(BOOST_INTERPROCESS_DETAIL_MPL_HPP)
template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true>       true_;
typedef bool_<false>      false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
typedef T2 type;

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short','--format=%aN%x09%ad', filename],
universal_newlines=True)
for line in log.splitlines():
    author, date = line.split(\'\t\')
    if author != 'fix-copyright.py':
        yield author, datetime.strptime(date, \'%Y-%m-%d\')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '[{0}]' if start.year == end.year else '[{0}]-[{1}]
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))
    def fix_copyright(filename):
        # Find copyright block in original file
        prefix = set()
        names = []
        lines = []
        with open(filename, \'r\') as f:
            content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r^(?P<prefix>\W*)(\(c\))?copyright(\(c\)?\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$, line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d[\'prefix\'])
                lines.append(i)
                names.append(d[\'name\'].strip())
        if len(prefix) != 1:
            print \'Not found: ', filename
            return
        prefix = list(prefix)[0]
        print filename
        new = iter(new_copyright(filename, names))
        with open(filename, \'w\') as f:
            for i, line in enumerate(content):
                if i in lines:
                    for repl in new:
def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

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Maybe this should pass?
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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
Adapters for Boost.MPL containers.

- `boost::mpl::integral_c<T, v>`: Adapter for IntegralConstants from Boost.MPL.
- `boost::mpl::vector<T>`: Adapter for Boost.MPL lists.
Adapter for Boost.MPL vectors.  

More...<br />
</div></td></tr></table>

<!-- contents -->

<!-- doc-content -->

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-->

<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->

<!-- is needed for treeview function! -->

<html>
<head>
</head>
<body>

<?xml version="1.0" encoding="utf-8"?>

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-->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>

<!--
<ulink url="../../../index.htm">
<imagedata align="left"
  format="GIF"
  fileref="../../../boost.png"
  alt="C++ Boost"/>
</ulink>-->

<!--hr /-->

<para>
The following is the overall license for the boost date_time library.  This notice is found in all source files related to the library.
</para>

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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 (agc@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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License
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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "~//Boost/DTD BoostBook XML V1.0//EN"
Copyright Test

<copyright>
  <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>

<copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>

<copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>

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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { n || "t<#{n}>" }) %>
using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }

///
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http://www.boost.org/LICENSE_1_0.txt
///
The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

#include "licence_info.hpp"
#ifndef BOOST_NO_MPL_COMPILE
#include "bcp_imp.hpp"
#endif
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) { }
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
os << "<a href="" << (p.root / p.file).string() << "">" << p.file.string() << "</a>";
return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC "+//W3C//DTD HTML 4.0 Transitional//EN\""
        "<html>
        "<head>
        "<title>Boost Licence Dependency Information</title>
        if(m_module_list.size() == 1)
        {
            os << " for " << *(m_module_list.begin());
        }
    os <<
        "</title>
        "</head>
        "<body>
        "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</H1><h2>Contents</h2>
";
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
";
    os << "<a href="#details">Licence Details</a>
";

while(i != j)
{
    // title:
    os << " <A href="#" make_link_target(licenses.first[i->first].license_name)
    "">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
";
"<a href="#authors">Files with no recognised copyright holder</a>
";
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
";
    " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
";
    " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
";
    " <a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
";
    " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
";
}

os << "<a href="#depend">File Dependency Information</a>
";
"</pre>";

//
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
";
if(m_scan_mode)
    os << "<p>The following files were scanned for boost dependencies:<br>
";
else
    os << "<p>The following Boost modules were checked:<br>
";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
os << *si << "<BR">
++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]]*+(\d+)$");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<p>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files (see details)</p>";
        os << "<p>(see details)</a>";
        ++i;
    }
}

// and now the details:

//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details">" <h2>Licence Details</h2>
while(i != j)
{
// title:
os << "<H3><A name="" << make_link_target/licenses.first[i->first].license_name"
"">" << licenses.first[i->first].license_name << "</H3>";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
  // Copyright holders:
os << "<P> This license is used by the following " << i->second.authors.size() << " copyright holders:
</BLOCKQUOTE><P> ";
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>";
++x;
}
os << "</P></BLOCKQUOTE>";
// Files using this license:
os << "<P> This license applies to the following " << i->second.files.size() << " files:
</BLOCKQUOTE><P> ";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>";
++m;
}
os << "</P></BLOCKQUOTE>";
}
else
{
os << "<P> This license is used by " << i->second.authors.size() << " authors (list omitted for brevity). </P>";
os << "<P> This license applies to " << i->second.files.size() << " files (list omitted for brevity). </P>";
++license_index;
++i;
// Output list of files not found to be under license control:
//
// os << "Files With No Recognisable Licence<br><p>";
// Output list of files with no found copyright holder:
//
// os << "Files With No Recognisable Copyright Holder<br><p>
// Protection List of files that have been moved over to the Boost Software License, along with enough information for human verification.
//
// os << "Files that can be automatically converted to the Boost Software License<br><p>";

typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;

conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << "<P>
        File: <tt>" << split_path(m_boost_path, i->first) << "</tt><br>
        <table border="1">
            <tr>
                <td><pre>
                    " << i->second.first << "</pre></td>
                <td><pre>
                    " << i->second.second << "</pre></td>
            </tr>
        </table>
    
    ++i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License

//
// Files that could be converted to the Boost Software License

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>

" << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:
";

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License

//
// Files that can NOT be converted to the Boost Software License

os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>

" << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:
";

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>";

// Output list of authors that we need permission for to move to the BSL

os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>

";

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "\n"));
// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2>
<table border="1" width="100%" cellpadding="1" cellspacing="0" summary="Copyright Information Table«;

std::map<std::string, std::set<fs::path, path_less>> ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
os << "<tr><td>" << ad->first << "</td><td>
std::set<fs::path, path_less> fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
os << split_path(m_boost_path, *fi) << " ";
++fi;
}
os << 
" </td></tr>
++ad;
}
os << 
" </table>«;
}

// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2>
<pre>
std::map<fs::path, fs::path, path_less> dep, last_dep;
std::set<fs::path, path_less> fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
bad_paths.insert(i->first);
}
++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P><\n";
}
while(fi != efi)
{
os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
    while(true)
    {
os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
        os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
        os << split_path(fs::path(), dep->second);
    else
        os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
    {
os << " <I>(Circular dependency!)</I>";
    break; // circular dependency!!!
    }
    seen_deps.insert(dep->second);
    last_dep = dep;
dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
    }
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>"

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":.
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
1.10 libwebsockets 2.1.0

1.10.1 Available under license:

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"[program] is based in part on the work of the libwebsockets project (https://libwebsockets.org)"

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- win32port/zlib - ZLIB license (see zlib.h)

Relicensed to libwebsocket license

- lib/base64-decode.c - relicensed to LGPL2.1+SLE, link to original
- lib/daemonize.c - relicensed from Public Domain to LGPL2.1+SLE, link to original Public Domain version

Public Domain (CC-zero) to simplify reuse

- test-server/*.c
- test-server/*.h
- lwsws/*

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Version 2.1, February 1999

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package spec

// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}

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Protocol Buffers for Go with Gadgets

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1.15 page-types 1.0 r0

1.16 python-ipy 0.83 r0

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file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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b) Use a suitable shared library mechanism for linking with the
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1.20 python-six 1.11.0 r0

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1.23 python-enum 1.1.6 r0

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The following people contributed improvements, fixes, suggestions, and
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- Salvatore Sanfilippo (https://github.com/antirez) is the author of
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https://github.com/antirez/linenoise

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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.

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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.

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1.30 update-rc-d 0.8 r0

1.31 wireshark 2.6.10 r0
1.31.1 Available under license:

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/usr/share/common-licenses/GPL-2.
#!/usr/bin/env python
# Copyright (c) 2013 The Chromium Authors. All rights reserved.
#
# SPDX-License-Identifier: BSD-3-Clause
#
"""Makes sure that all files contain proper licensing information."""

import optparse
import os.path
import subprocess
import sys

def PrintUsage():
print("""Usage: python checklicenses.py [--root <root>] [tocheck]
--root Specifies the repository root. This defaults to ".." relative
to the script file. This will be correct given the normal location
of the script in "<root>/tools".
--ignore-suppressions Ignores path-specific license whitelist. Useful when
trying to remove a suppression/whitelist entry.
tocheck Specifies the directory, relative to root, to check. This defaults
to "." so it checks everything.
Examples:
python checklicenses.py
python checklicenses.py --root ~/chromium/src third_party""")

WHITELISTED_LICENSES = [
'BSD',
'BSD (2 clause)',
'BSD (2 clause) GPL (v2 or later)',
'BSD (3 clause)',
'GPL (v2 or later)',
'GPL (v3 or later) (with Bison parser exception)',
'ISC',
'ISC GPL (v2 or later)',
'LGPL (v2 or later)',
'LGPL (v2.1 or later)',
'MIT/X11 (BSD like)',

Open Source Used In Callisto_PSIRT 1.3.2 344


'Public domain',
'Public domain GPL (v2 or later)',
'Public domain MIT/X11 (BSD like)',
'zlib/libpng',
'zlib/libpng GPL (v2 or later)',
]

PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'caputils/airpcap.h': [
        'BSD-3-Clause',
    ],
    'wsutil/strnatcmp.c': [
        'Zlib',
    ],
    'wsutil/strnatcmp.h': [
        'Zlib',
    ],
    'dtds': [
        'UNKNOWN',
    ],
    'diameter/dictionary.dtd': [
        'UNKNOWN',
    ],
    'wimaxasncp/dictionary.dtd': [
        'UNKNOWN',
    ],
    'doc/': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_chm.xsl': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_single_html.xsl': [
        'UNKNOWN',
    ],
    'docbook/ws.css': [
        'UNKNOWN'
    ],
    'fix': [
        'UNKNOWN',
    ],
    'wsutil/g711.c': [
        'UNKNOWN',
    ],
    'packaging/macosx': [
        'UNKNOWN',
    ],
'epan/except.c': ['UNKNOWN'],
'epan/except.h': ['UNKNOWN'],
'cmake/TestFileOffsetBits.c': ['UNKNOWN'],
'cmake/TestWindowsFSeek.c': ['UNKNOWN'],
# Generated header files by lex/yacc/whatever
'epan/dtd_grammar.h': ['UNKNOWN'],
'epan/dfilter/grammar.h': ['UNKNOWN'],
'epan/dfilter/grammar.c': ['UNKNOWN'],
'epan/dissectors/packet-dtn.c': ['GPL (v2 or later) GPL (v2 or later)'] # TODO: make licensecheck handle this better
,'epan/dissectors/packet-ieee80211-radiotap-iter.c': [# Using ISC license only
   'ISC GPL (v2)'
 ],
'epan/dissectors/packet-ppi.c': [# Using BSD (3 clause) license
   'BSD (3 clause) GPL (v2)'
 ],
'plugins/mate/mate_grammar.h': ['UNKNOWN'],
'version.h': ['UNKNOWN'],
# Special IDL license that appears to be compatible as far as I (not a
# lawyer) can tell. See
# https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
'epan/dissectors/pidl/idl_types.h': ['UNKNOWN'],
# Written by Ronnie Sahlberg and correctly licensed, but cannot include
# a license header despite the file extension as they need to be
# parsed by the pidl tool
'epan/dissectors/pidl/mapi/request.cnf.c': ['UNKNOWN'],
# The following tools are under incompatible licenses (mostly GPLv3 or GPLv3+), but this is OK since they are not actually linked into Wireshark
'tools/pidl': ['UNKNOWN'],
'tools/lemon': ['UNKNOWN'],
'tools/licensecheck.pl': ['GPL (v2)'],

# Generated files for GTK pixbuf binary bundling
'ui/gtk/wireshark-gresources.h': ['UNKNOWN'],
'ui/gtk/wireshark-gresources.c': ['UNKNOWN'],

# The airpcap code is using BSD (3 clause)
'epan/crypt/dot11decrypt_interop.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/dot11decrypt_tkip.c': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/dot11decrypt_ws.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/wep-wpadefs.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/dot11decrypt_system.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/dot11decrypt_user.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/dot11decrypt_ccmp.c': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/dot11decrypt_int.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/dot11decrypt.c': ['
def check_licenses(options, args):
    # Figure out which directory we have to check.
    if len(args) == 0:
        # No directory to check specified, use the repository root.
        start_dir = options.base_directory
    elif len(args) == 1:
        # Directory specified. Start here. It's supposed to be relative to the
        # base directory.
        start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
    else:
        # More than one argument, we don't handle this.
        PrintUsage()
        return 1

    print("Using base directory: %s" % options.base_directory)
    print("Checking: %s" % start_dir)
    print(""")

    licensecheck_path = os.path.abspath(os.path.join(options.base_directory, 'tools', 'licensecheck.pl'))
    licensecheck = subprocess.Popen([licensecheck_path, '-l', '150', '-r', start_dir],
                                      stdout=subprocess.PIPE,
                                      stderr=subprocess.PIPE)
    stdout, stderr = licensecheck.communicate()
    if sys.version_info[0] >= 3:
        stdout = stdout.decode('utf-8')
        stderr = stderr.decode('utf-8')
    if options.verbose:
        print('----------- licensecheck stdout -----------')
        print(stdout)
        print('--------- end licensecheck stdout ---------')
    if licensecheck.returncode != 0 or stderr:
        print('----------- licensecheck stderr -----------')
        print(stderr)
print('--------- end licensecheck stderr ---------')
print("unFAILED\n")
return 1

success = True
exit_status = 0
for line in stdout.splitlines():
    filename, license = line.split(':', 1)
    filename = os.path.relpath(filename.strip(), options.base_directory)

    # All files in the build output directory are generated one way or another.
    # There's no need to check them.
    if filename.startswith('out/') or filename.startswith('sconsbuild/):
        continue

    # For now we're just interested in the license.
    license = license.replace("*No copyright*", ",").strip()

    # Skip generated files.
    if 'GENERATED FILE' in license:
        continue

    if license in WHITELISTED_LICENSES:
        continue

    if not options.ignore_suppressions:
        found_path_specific = False
        for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
            if (filename.startswith(prefix) and
                license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
                found_path_specific = True
                break
        if found_path_specific:
            continue

    reason = "'{}' has non-whitelisted license '%s'" % (filename, license)
    success = False
    print(reason)
    exit_status = 1

if success:
    print("unSUCCESS\n")
    return 0
else:
    print("unFAILED\n")
    return exit_status
def main():
default_root = os.path.abspath(
    os.path.join(os.path.dirname(__file__), '..', '))
option_parser = optparse.OptionParser()
option_parser.add_option('--root', default=default_root,
    dest='base_directory',
    help='Specifies the repository root. This defaults to "../.." relative to the script file, which will normally be the repository root."
option_parser.add_option('-v', '--verbose', action='store_true',
    default=False, help='Print debug logging')
option_parser.add_option('--ignore-suppressions',
    action='store_true',
    default=False,
    help='Ignore path-specific license whitelist.')
options, args = option_parser.parse_args()
return check_licenses(options, args)

if '__main__' == __name__:
sysexit(main())
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Wireshark
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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required
---------------------------
Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

glib 2.16 or later:
   ftp.gnome.org:/pub/gnome/sources/glib/

pkgconfig:
   http://pkgconfig.freedesktop.org/releases/

python 2.5 or later:
   https://www.python.org/downloads/source/

If you want to use the Wireshark GUI, install one or both of these toolkits:

gtk+ 2.12 or later:
   ftp.gnome.org:/pub/gnome/sources/gtk+/

Open Source Used In Callisto_PSIRT 1.3.2 356

Qt 4.7 or later:
http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. These can be found by typing ./configure --help or looking at the output at the end of running the configure script.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

./configure
make
make install

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

ls -l /dev/bpf*

You should see one or more bpf devices listed similar to this:

crw------ 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
crw------ 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1

Packet-capturing programs will pick the first bpf device that’s not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.
4. Running wireshark as a non-root user

Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s).

If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

```
user {user}
```

to set the user who owns the device, or

```
group {group}
```

to set the group that owns the device and adding a line such as

```
devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
[localrules=10]
add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

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Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

--- a/ui/gtk/about_dlg.c
+++ b/ui/gtk/about_dlg.c
@@ -522,7 +522,7 @@
 #if defined(_WIN32)
     absolute_path = get_datafile_path("COPYING.txt");
 #else
-    absolute_path = get_datafile_path("COPYING");
+    absolute_path = get_datafile_path("ABOUT.GPL");
 #endif
     page = text_page_new(absolute_path);

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
 #if defined(_WIN32)
     f_license.setFileName(get_datafile_path("COPYING.txt"));
 #else
-    f_license.setFileName(get_datafile_path("COPYING");
+    f_license.setFileName(get_datafile_path("ABOUT.GPL");
 #endif
     f_license.open(QFile::ReadOnly | QFile::Text);

1.32 python3-gevent 1.2.2 r0
1.32.1 Available under license:

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1.33 python-cffi 1.11.5 r0
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**1.34 go-systemd 4 r0**

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### 1.37 bluez 5.48 r0

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1.49 cjson 1.7.10 r0

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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;
nomisuse-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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</head>
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<h3>Copyright Notice</h3>
<img src="pic/sheepb.jpg" alt="jpg" align="left"> "Clone me," says Dolly sheepishly.
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<!-- #BeginDate format:En2m -->2-Jan-2017  11:58<!-- #EndDate -->
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<br clear="left">
</p>
</body>
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- Mark Andrews  
  Leitch atomic clock controller
- Bernd Altmeyer  
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- Jean-Francois Boudreault  
  IPv6 support
- Reg Clemens  
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- Casey Crellin  
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- Torsten Duwe  
  Linux port
- Dennis Ferguson  
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- John Hay  
  IPv6 support and testing
- Dave Hart  
  General maintenance, Windows port interpolation rewrite
- Claas Hilbrecht  
  NeoClock4X
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<li><a href="mailto:%20millis@udel.edu">David L. Mills <millis@udel.edu></a> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36</li>
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<li><a href="mailto:%20jack@innovativeinternet.com">Jack Sasportas <jack@innovativeinternet.com></a> Saved a Lot of space on the stuff in the html/pic/ subdirectory</li>
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<li><a href="mailto:%20shield@tembel.org">Michael Shields <shield@tembel.org></a> USNO clock driver</li>
<li><a href="mailto:%20pebbles.jpl.nasa.gov">Jeff Steinman <pebbles.jpl.nasa.gov@jss@pebbles.jpl.nasa.gov></a> Datum PTS clock driver</li>
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3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <Iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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 sntp to comply with NTPv4 specification, ntpq saveconf
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@ucsd.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication code for Version 3 as specified in RFC-1305
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
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 <tmoore@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 <rneal@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 <direc@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
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.55 python-idna 2.7 r0
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1.57 gdbm 1.18 r0

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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 3a0982da308228d796df35f98d787c5c6f2bb5b6.

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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1.60 python-setuptools 40.0.0 r0

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Markus F.X.J. Oberhumer
<markus@oberhumer.com>
http://www.oberhumer.com/opensource/lzo/
/*

#define LZO_NEED_DICT_H 1
#include "config1c.h"

#if !defined(COMPRESS_ID)
#define COMPRESS_ID LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif

#include "lzo1b_c.ch"

/*******************--------------------------------------------------------------------------
//
*******************--------------------------------------------------------------------------*/

#define LZO_COMPRESS 
LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,compress)
#define LZO_COMPRESS_FUNC\
LZO_PP_ECONCAT3(_lzo1c_COMPRESS_ID_compress_func)

/*******************************************************************************
//
/*****************************************************************************/
const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
lzo_bytep out, lzo_uintp out_len,
lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/* vim:set ts=4 sw=4 et: */

1.65 bind 9.11.5-P4 r0
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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 form 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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1.66 libxml 2.9.8 r0

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Polly is developed by a team of students supported by different universities.

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  Raghesh works on OpenMP code generation. He is funded as Google Summer of Code Student 2011.

- **Johannes Doerfert**
  
  Johannes works on Polly as part of his PhD research at Saarland University in Germany.

- **Tobias Grosser**
  
  Tobias is one of the two Co-founders of Polly. He designed the overall architecture and contributed to almost every part of Polly. Polly was started during his diploma studies at University of Passau. Furthermore, he spent 6 months at Ohio State University (funded by the U.S. National Science Foundation through awards 0811781 and 0926688). From August 2011 he works on Polly, during his PhD with INRIA/UMPC/ENS (funded through a Google Europe Fellowship in Efficient Computing).</p>

- **Andreas Simburger**

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Website: [http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/](http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/)

Hongbin Zheng

Hongbin Zheng is one of the two Co-founders of Polly. He was funded as a Google Summer of Code Student 2010 and implemented parts of the Polly frontends as well as the automake/cmake infrastructure.

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
  br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [i32 1, label %sw.bb.i
  i32 2, label %sw.bb3.i]

  sw.bb.i: ; preds = %while.body
  unreachable

  sw.bb3.i: ; preds = %while.body
  unreachable

  exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20]

  sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%f1t = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %f1t, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
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// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end
@interface NSObject <NSObject> {
}
@end
@interface NSString : NSObject
@end
void __setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
}
static NSString * _logProcessPrefix = 0;
void func() {
    __setRetained(_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@end

@interface NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {
    __setRetained(_logProcessPrefix, processPrefix, &_logProcessPrefix);
}
@end

@class Derived;

NSObject * ExternFunc (NSObject *filePath, NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);

@interface Derived: NSObject
+ (void)registerFunc:(FuncSignature *)function; // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void)
{
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument types).
    // Since registerFunc: expects a Derived object as it's second argument, I don't know why this would be legal.
    [Derived registerFunc: ExternFunc]; // expected-warning{{incompatible pointer types sending 'NSObject *(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}
}

Open Source Used In Callisto_PSIRT 1.3.2 679
// rdar://10751015
@protocol NSCopying @end
@interface I
- (void) Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying can not be confirmed}}

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {

[pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type 'id<NSCopying>'}}

id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of incompatible type 'ForwarClass *'}}

return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type 'ForwarClass *'}}
}

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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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1.70 libcgroupl 0.41 r0
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Version 2.1, February 1999

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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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   table of data to be supplied by an application program that uses
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   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
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1.72 iperf 3.6 r0

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*----------------------------------------
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* by Mark Gates <mgates@nlanr.net>
* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
* ----------------------------------------
* input and output numbers, converting with kilo, mega, giga
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#ifndef _LTTNG_UST_CTL_PRIVATE_H
#define _LTTNG_UST_CTL_PRIVATE_H

#include <lttng/ust-ctl.h>

/*
 * Map channel lttng_ust_shm_handle and add streams. Typically performed
 * by the application to map the objects into its memory space.
 */
struct lttng_ust_shm_handle *
ustctl_map_channel(struct lttng_ust_object_data *chan_data);
int ustctl_add_stream(struct lttng_ust_shm_handle *lttng_ust_shm_handle,
struct lttng_ust_object_data *stream_data);

/*
 * Note: the lttng_ust_object_data from which the lttng_ust_shm_handle
 * is derived can only be released after unmapping the handle.
 */
void ustctl_unmap_channel(struct lttng_ust_shm_handle *lttng_ust_shm_handle);

#endif /* _LTTNG_UST_CTL_PRIVATE_H */

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functions (ten lines or less in length), then the use of the object
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1.86 initscripts 1.0 r155
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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.

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.

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.

e) 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 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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(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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If distribution of object code is made by offering access to copy
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1.92 containerd-opencontainers v1.0.3 r0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.94 harfbuzz 1.8.8 r0

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1.95 python-pip 18.0 r0

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1.96 pango 1.42.4 r0

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As well as enhancing the existing code the new modules were developed.

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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1.103 python 2.7.16 r1

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History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting
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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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| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
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| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
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| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes             |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes             |
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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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Independent implementation of MD5 (RFC 1321).

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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.

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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 speed up. The C version is still 5 times faster, though.
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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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1.106 rapidjson 1.0.0

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1.108 libdaemon 0.14 r0
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1.109 unzip 6.0 r5

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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 decompresseion 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

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* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* MacBinaryII.h

* Copyright 1997 Christopher Evans (cevans@poppybank.com)

* Basic encoding and decoding of Macintosh files to the MacBinary III spec.
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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 unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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* from Steve P. Miller.

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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.

1.110 libmnl 1.0.4 r0
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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.

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
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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.

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.

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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which the executable runs, unless that component itself accompanies
the executable.

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That's all there is to it!

1.111 systemd-compat-units 1.0 r29

1.112 lxc 3.1.0 r0
1.112.1 Available under license:

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*/

#include "lxclxclock.h"
#include "config.h"
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>

#define mycontainername "lxctest.sem"
#define TIMEOUT_SECS 3

static void test_two_locks(void)
{
    struct lxc_lock *l;
    pid_t pid;
    int ret, status;
    int p[2];
    char c;

    if (pipe(p) < 0)
        exit(1);
    
    if ((pid = fork()) < 0)
        exit(1);
    
    if (pid == 0) {
        if (read(p[0], &c, 1) < 0) {
            perror("read");
            exit(1);
        }
        l = lxc_newlock("/tmp", "lxctest-sem");
        if (!l) {
            fprintf(stderr, "%d: child: failed to create lock\n", __LINE__);  
            exit(1);
        }
    }

    if (lxclock(l, 0) < 0) {
fprintf(stderr, "%d: child: failed to grab lock\n", __LINE__); exit(1);
}

fprintf(stderr, "%d: child: grabbed lock\n", __LINE__); exit(0);
}

l = lxc_newlock('/tmp', "lxctest-sem");
if (!l) {
  fprintf(stderr, "%d: failed to create lock\n", __LINE__); exit(1);
}

if (lxclock(l, 0) < 0) {
  fprintf(stderr, "%d: failed to get lock\n", __LINE__); exit(1);
}

if (write(p[1], "a", 1) < 0) {
  perror("write"); exit(1);
}

sleep(3);

ret = waitpid(pid, &status, WNOHANG);
if (ret == pid) { // task exited
  if (WIFEXITED(status)) {
    printf("%d exited normally with exit code %d\n", pid, WEXITSTATUS(status));
    if (WEXITSTATUS(status) != 0)
      exit(1);
  } else
    printf("%d did not exit normally\n", pid);
  return;
} else if (ret < 0) {
  perror("waitpid"); exit(1);
}

kill(pid, SIGKILL);
wait(&status);
close(p[1]);
close(p[0]);
lxcunlock(l);
lxc_putlock(l);
int main(int argc, char *argv[]) {
    int ret;
    struct lxc_lock *lock;

    lock = lxc_newlock(NULL, NULL);
    if (!lock) {
        fprintf(stderr, "%d: failed to get unnamed lock\n", __LINE__);
        exit(1);
    }
    ret = lxclock(lock, 0);
    if (ret) {
        fprintf(stderr, "%d: failed to take unnamed lock (%d)\n", __LINE__, ret);
        exit(1);
    }
    ret = lxcunlock(lock);
    if (ret) {
        fprintf(stderr, "%d: failed to put unnamed lock (%d)\n", __LINE__, ret);
        exit(1);
    }
    lxc_putlock(lock);

    lock = lxc_newlock("/var/lib/lxc", mycontainername);
    if (!lock) {
        fprintf(stderr, "%d: failed to get lock\n", __LINE__);
        exit(1);
    }
    struct stat sb;
    char *pathname = RUNTIME_PATH "/lxc/lock/var/lib/lxc/";
    ret = stat(pathname, &sb);
    if (ret != 0) {
        fprintf(stderr, "%d: filename %s not created\n", __LINE__, pathname);
        exit(1);
    }
    lxc_putlock(lock);

    test_two_locks();

    fprintf(stderr, "all tests passed\n");
    exit(ret);
}
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Version 2.1, February 1999

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1.115 python3-pyudev 0.21.0 r0

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 */

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#define UV_PLATFORM_FS_EVENT_FIELDS
  uv__io_t eventWatcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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1.122 systemd-bootchart 233 r0

1.123 make 4.2.1 r0
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#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <assert.h>
#ifdef __AMIGA
 # include <dos/dos.h>
 # include <proto/dos.h>
#endif
#ifdef WINDOWS32
 # include <windows.h>
 # include <io.h>
 # include "pathstuff.h"
 # include "sub_proc.h"
 # include "w32err.h"
#endif
#ifdef __EMX__
 # include <sys/types.h>
 # include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
 # include <fcntl.h>
#endif
#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif

#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
    char * value;
    char x;

    value = getenv (name);
    if (value == NULL)
        return default_value;

    x = toupper (value[0]);
    switch (x)
    {
        case '1':
        case 'T':
        case 'E':
            return 1;
        break;
        case '0':
        case 'F':
        case 'D':
            return 0;
    }
}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
#define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir ();
#endif

#ifndef STDC_HEADERS
#endif

#ifndef sun /* Sun has an incorrect decl in a header. */

Open Source Used In Callisto_PSIRT 1.3.2 1216
# The structure that describes an accepted command switch. */

struct command_switch
{
    int c;                      /* The switch character. */

    enum /* Type of the value. */
    { flag, /* Turn int flag on. */
        flag_off, /* Turn int flag off. */
        string, /* One string per invocation. */
        strlist, /* One string per switch. */
        filename, /* A string containing a file name. */
        positive_int, /* A positive integer. */
        floating, /* A floating-point number (double). */
        ignore /* Ignored. */
    } type;

    void *value_ptr; /* Pointer to the value-holding variable. */

    unsigned int env:1; /* Can come from MAKEFLAGS. */
    unsigned int toenv:1; /* Should be put in MAKEFLAGS. */
    unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

    const void *noarg_value; /* Pointer to value used if no arg given. */
    const void *default_value; /* Pointer to default value. */

    const char *long_name; /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */
#define short_option(c) ((c) <= CHAR_MAX)
/* The structure used to hold the list of strings given
   in command switches of a type that takes strlist arguments. */

struct stringlist
{
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
    unsigned int max; /* Number of pointers allocated. */
};

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */
int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */
int silent_flag;

/* Nonzero means just touch the files
   that would appear to need remaking (-t) */
int touch_flag;

/* Nonzero means just print what commands would need to be executed,
   don't actually execute them (-n). */
int just_print_flag;

/* Print debugging info (--debug). */
static struct stringlist *db_flags = 0;
static int debug_flag = 0;
int db_level = 0;

/* Synchronize output (--output-sync). */
char *output_sync_option = 0;

#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */
int suspend_flag = 0;
#endif
/* Environment variables override makefile definitions. */

int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands
executed to remake files. Just treat them all as successful (-i). */

int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base
that results from reading the makefile (-p). */

int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status
if the specified targets are not up to date (-q). */

int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R). */

int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */

int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */

int check_symlink_flag = 0;

/* Nonzero means print directory before starting and when done (-w). */

int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory.
This is necessary because print_directory_flag is set implicitly. */

int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */
static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;
static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our
children under -O. */

char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run.
Negative values mean unlimited, while zero means limit to
zero load (which could be useful to start infinite jobs remotely
but one at a time locally). */

#ifndef NO_FLOAT
double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */

static struct stringlist *directories = 0;
/* List of include directories given with -I switches. */

static struct stringlist *include_directories = 0;

/* List of files given with -o switches. */

static struct stringlist *old_files = 0;

/* List of files given with -W switches. */

static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */

static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */

static int print_usage_flag = 0;

/* If nonzero, we should print a warning message for each reference to an undefined variable. */

int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether they appear out of date or not. */

static int always_make_set = 0;

int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */

int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */

struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */

char cmd_prefix = 't';

/* The usage output. We write it this way to make life easier for the translators, especially those trying to translate to right-to-left languages like Hebrew. */
static const char *const usage[] =
{
    N_("Options:
"),
    N_("\n -b, -m                          Ignored for compatibility.\n"),
    N_("\n -B, --always-make           Unconditionally make all targets.\n"),
    N_("\n -C DIRECTORY, --directory=DIRECTORY\n\n Change to DIRECTORY before doing anything.\n"),
    N_("\n -d                                   Print lots of debugging information.\n"),
    N_("\n --debug[=FLAGS]         Print various types of debugging information.\n"),
    N_("\n -e, --environment-overrides\n\n Environment variables override makefiles.\n"),
    N_("\n --eval=STRING               Evaluate STRING as a makefile statement.\n"),
    N_("\n -f FILE, --file=FILE, --makefile=FILE\n\n Read FILE as a makefile.\n"),
    N_("\n -h, --help                  Print this message and exit.\n"),
    N_("\n -i, --ignore-errors        Ignore errors from recipes.\n"),
    N_("\n -I DIRECTORY, --include-dir=DIRECTORY\n\n Search DIRECTORY for included makefiles.\n"),
    N_("\n -j [N], --jobs[=N]           Allow N jobs at once; infinite jobs with no arg.\n"),
    N_("\n -k, --keep-going           Keep going when some targets can’t be made.\n"),
    N_("\n -l [N], --load-average[=N], --max-load[=N]\n\n Don’t start multiple jobs unless load is below N.\n"),
    N_("\n -L, --check-symlink-times    Use the latest mtime between symlinks and target.\n"),
    N_("\n -n, --just-print, --dry-run, --recon\n\n Don’t actually run any recipe; just print them.\n"),
    N_("\n -o FILE, --old-file=FILE, --assume-old=FILE\n\n Consider FILE to be very old and don’t remake it.\n"),
    N_("\n -O[TYPE], --output-sync[=TYPE]\n\n Synchronize output of parallel jobs by TYPE.\n"),
};
-p, --print-data-base  Print make's internal database.
-N_
-q, --question  Run no recipe; exit status says if up to date.
-N_
-r, --no-built-in-rules  Disable the built-in implicit rules.
-N_
-R, --no-built-in-variables  Disable the built-in variable settings.
-N_
-s, --silent, --quiet  Don't echo recipes.
-N_
-S, --no-keep-going, --stop
  Turns off -k.
-N_
-t, --touch  Touch targets instead of remaking them.
-N_
--trace  Print tracing information.
-N_
-v, --version  Print the version number of make and exit.
-N_
-w, --print-directory  Print the current directory.
-N_
--no-print-directory  Turn off -w, even if it was turned on implicitly.
-N_
-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE
  Consider FILE to be infinitely new.
-N_
--warn-undefined-variables  Warn when an undefined variable is referenced.
NULL
};

/* The table of command switches. 
Order matters here: this is the order MAKEFLAGS will be constructed. 
So be sure all simple flags (single char, no argument) come first. */

static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0, "environment-overrides" },
    { 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
    { 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
    { 'k', flag, &keep_going_flag, 1, 1, 0, 0, 0, "keep-going" },
    { 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
};
{ 'm', ignore, 0, 0, 0, 0, 0, 0 },
{ 'n', flag, &just_print_flag, 1, 1, 1, 0, 0, "just-print" },
{ 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
{ 'q', flag, &question_flag, 1, 1, 1, 0, 0, "question" },
{ 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
{ 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0, "no-builtin-variables" },
{ 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
{ 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag, "no-keep-going" },
{ 't', flag, &touch_flag, 1, 1, 1, 0, 0, "touch" },
{ 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
{ 'w', flag, &print_directory_flag, 1, 1, 0, 0, 0, "print-directory" },

/* These options take arguments. */
{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
{ 'f', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'I', filename, &include_directories, 1, 1, 0, 0, 0, "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots, "jobs" },
#ifndef NO_FLOAT
    { 'l', floating, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#else
    { 'l', positive_int, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#endif
{ 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{ 'W', filename, &new_files, 0, 0, 0, 0, 0, "what-if" },

/* These are long-style options. */
{ CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, "basic", 0, "debug" },
{ CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0, "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0, "warn-undefined-variables" },
{ CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },
{ CHAR_MAX+7, string, &sync_mutex, 1, 1, 0, 0, 0, "sync-mutex" },
{ 0, 0, 0, 0, 0, 0, 0, 0 }
};

/* Secondary long names for options. */

static struct option long_option_aliases[] =

{
    { "quiet",       no_argument,     0, 's' },
    { "stop",        no_argument,     0, 'S' },
    { "new-file",    required_argument, 0, 'W' },
    { "assume-new",  required_argument, 0, 'W' },
    { "assume-old",  required_argument, 0, 'o' },
    { "max-load",    optional_argument, 0, 'l' },
    { "dry-run",     no_argument,     0, 'n' },
    { "recon",       no_argument,     0, 'n' },
    { "makefile",    required_argument, 0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifndef WINDOWS32
    /* On MS-Windows, we chop off the .exe suffix in 'main', so this
cannot be 'const'. */
    char *program;
#else
    const char *program;
#endif

/* Our current directory before processing any -C options. */

char *directory_before.chdir;

/* Our current directory after processing all -C options. */

char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;
/* Pointer to the value of the .DEFAULT_GOAL special variable. 
The value will be the name of the goal to remake if the command line 
does not override it. It can be set by the makefile, or else it's 
the first target defined in the makefile whose name does not start 
with "." */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT 
whose commands are used for any file that has none of its own. 
This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic `.POSIX` target. 
This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the `.SECONDEXPANSION` target. 
This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the `.ONESHELL` target. 
This causes the entire recipe to be handed to `SHELL` 
as a single string, potentially containing newlines. */

int one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This 
attempt s to synchronize the output of parallel jobs such that the results 
of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */

int trace_flag = 0;

/* Nonzero if we have seen the `.NOTPARALLEL` target. 
This turns off parallel builds for this invocation of make. */

int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only 
print one warning about it during the run, and (b) we can print a final 
warning at the end of the run. */
int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifndef UCHAR_MAX
#define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due
to options, while reading makefiles, etc. */
struct output make_sync;

/* Mask of signals that are being caught with fatal_error_signal. */
#ifdef POSIX
sigset_t fatal_signal_set;
#else
#endif
#endif
#else
int fatal_signal_mask;
#endif
#endif

#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
# if !defined HAVE_SIGACTION
# define bsd_signal signal
# else
typedef RETSIGTYPE (*bsd_signal_ret_t) (int);

static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)
        return SIG_ERR;
    return oact.sa_handler;
}
#else
#endif
#endif

static void
initialize_global_hash_tables (void)
{  
init_hash_global_variable_set ();  
strcache_init ();  
init_hash_files ();  
hash_init_directories ();  
hash_init_function_table ();  
}  

/* This character map locate stop chars when parsing GNU makefiles.  
   Each element is true if we should stop parsing on that character.  */

static void  
initialize_stopchar_map (void)  
{  
int i;  

stopchar_map[(int)'0'] = MAP_NUL;  
stopchar_map[(int)'#'] = MAP_COMMENT;  
stopchar_map[(int);'] = MAP_SEMI;  
stopchar_map[(int)('=')] = MAP_EQUALS;  
stopchar_map[(int):'] = MAP_COLON;  
stopchar_map[(int)('%')] = MAP_PERCENT;  
stopchar_map[(int)'|'] = MAP_PIPE;  
stopchar_map[(int)'.'] = MAP_DOT | MAP_USERFUNC;  
stopchar_map[(int)'\'] = MAP_USERFUNC;  
stopchar_map[(int)'$'] = MAP_VARIABLE;  
stopchar_map[(int)'-'] = MAP_USERFUNC;  
stopchar_map[(int)'_'] = MAP_USERFUNC;  
stopchar_map[(int)'] = MAP_BLANK;  
stopchar_map[(int)'\'] = MAP_BLANK;  

stopchar_map[(int)'/] = MAP_DIRSEP;  
#if defined(VMS)  
stopchar_map[(int):'] |= MAP_DIRSEP;  
stopchar_map[(int)'\'] |= MAP_DIRSEP;  
stopchar_map[(int)'^'] |= MAP_DIRSEP;  
#endif  
#elif defined(HAVE_DOS_PATHS)  
stopchar_map[(int)'] |= MAP_DIRSEP;  
#endif  

for (i = 1; i <= UCHAR_MAX; ++i)  
{  
   if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))  
   /* Don't mark blank characters as newline characters.  */
   stopchar_map[i] = MAP_NEWLINE;  
   else if (isalnum (i))


stopchar_map[i] |= MAP_USERFUNC;
}
}

static const char *
expand_command_line_file (const char *name)
{
  const char *cp;
  char *expanded = 0;

  if (name[0] == '\0')
    O (fatal, NILF, _("empty string invalid as file name"));

  if (name[0] == '\~')
    {
      expanded = tilde_expand (name);
      if (expanded && expanded[0] != '\0')
        name = expanded;
    }

  /* This is also done in parse_file_seq, so this is redundant
   * for names read from makefiles. It is here for names passed
   * on the command line. */
  while (name[0] == '.' && name[1] == '/')
    {
      name += 2;
      while (name[0] == '/')
        /* Skip following slashes: ".//foo" is "foo", not "/foo". */
        ++name;
    }

  if (name[0] == '\0')
    {
      /* Nothing else but one or more ".", maybe plus slashes! */
      name = "./";
    }

  cp = strcache_add (name);

  free (expanded);

  return cp;
}

/* Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
  static RETSIGTYPE
#else
  static void
#endif

debug_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
decode_debug_flags (void)
{
    const char **pp;

    if (debug_flag)
        db_level = DB_ALL;

    if (db_flags)
        for (pp=db_flags->list; *pp; ++pp)
            {
                const char *p = *pp;
                while (1)
                    {
                        switch (tolower (p[0]))
                            {
                            case 'a':
                                db_level |= DB_ALL;
                                break;
                            case 'b':
                                db_level |= DB_BASIC;
                                break;
                            case 'i':
                                db_level |= DB_BASIC | DB_IMPLICIT;
                                break;
                            case 'j':
                                db_level |= DB_JOBS;
                                break;
                            case 'm':
                                db_level |= DB_BASIC | DB_MAKEFILES;
                                break;
                            case 'n':
                                db_level = 0;
                                break;
                            case 'v':
                                db_level |= DB_BASIC | DB_VERBOSE;
                                break;
                            default:
                                OS (fatal, NILF,
                                    _("unknown debug level specification '%s'"), p);
                            }
                        }
                    }
}
}
while (*++p) != '\0'
    if (*p == ',' || *p == ' ')
        { ++p; break; }
    if (*p == '\0')
        break;
}
if (db_level)
    verify_flag = 1;
if (! db_level)
    debug_flag = 0;
}
static void
decode_output_sync_flags (void)
{
    #ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
    #else
    if (output_sync_option)
        { if (streq (output_sync_option, "none"))
            output_sync = OUTPUT_SYNC_NONE;
            else if (streq (output_sync_option, "line"))
                output_sync = OUTPUT_SYNC_LINE;
                else if (streq (output_sync_option, "target"))
                    output_sync = OUTPUT_SYNC_TARGET;
                    else if (streq (output_sync_option, "recurse"))
                        output_sync = OUTPUT_SYNC_RECURSE;
                        else
                            OS (fatal, NILF,
                              "unknown output-sync type \"%s\""), output_sync_option);
        }
    if (sync_mutex)
        RECORD_SYNC_MUTEX (sync_mutex);
    #endif
    #ifdef WINDOWS32

/** This is called from start_job_command when it detects that output_sync option is in effect. The handle to the synchronization mutex is passed, as a string, to sub-makes via the --sync-mutex command-line argument. */

void
prepare_mutex_handle_string (sync_handle_t handle)
{
if (!sync_mutex)
{
  /* Prepare the mutex handle string for our children. */
  /* 2 hex digits per byte + 2 characters for "0x" + null. */
  sync_mutex = xmalloc ((2 * sizeof (sync_handle_t)) + 2 + 1);
  sprintf (sync_mutex, "0x%Ix", handle);
  define_makeflags (1, 0);
}
}

/* HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture exception and print it to stderr instead.
* If ! DB_VERBOSE, just print a simple message and exit.
* If DB_VERBOSE, print a more verbose message.
* If compiled for DEBUG, let exception pass through to GUI so that debuggers can attach.
*/

LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
  PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
  LPSTR cmdline = GetCommandLine ();
  LPSTR prg = strtok (cmdline, " ");
  CHAR errmsg[1024];
  #ifdef USE_EVENT_LOG
  HANDLE hEventSource;
  LPTSTR lpszStrings[1];
  #endif
  if (! ISDB (DB_VERBOSE))
  {
    sprintf (errmsg,
      _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)\n"),
      prg, exrec->ExceptionCode, exrec->ExceptionAddress);
    fprintf (stderr, errmsg);
  }
  return (0);
}
exit (255);

sprintf (errmsg,
    "Unhandled exception filter called from program %s
ExceptionCode = %lx
ExceptionFlags = %lx
ExceptionAddress = 0x%p",
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        Access violation: %s
Access violation: %s
(PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
    hEventSource = RegisterEventSource (NULL, "GNU Make");
    lpszStrings[0] = errmsg;

    if (hEventSource != NULL)
    {
        ReportEvent (hEventSource, /* handle of event source */
            EVENTLOG_ERROR_TYPE, /* event type */
            0, /* event category */
            0, /* event ID */
            NULL, /* current user's SID */
            1, /* strings in lpszStrings */
            0, /* no bytes of raw data */
            lpszStrings, /* array of error strings */
            NULL); /* no raw data */

        (VOID) DeregisterEventSource (hEventSource);
    }
#endif

/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG
    return EXCEPTION_CONTINUE_SEARCH;
#else
    exit (255);
    return (255); /* not reached */
#endif
}
/ * On WIN32 systems we don't have the luxury of a /bin directory that * is mapped globally to every drive mounted to the system. Since make could * be invoked from any drive, and we don't want to propagate /bin/sh * to every single drive. Allow ourselves a chance to search for * a value for default shell here (if the default path does not exist). */

int
find_and_set_default_shell (const char *token)
{
    int sh_found = 0;
    char *atoken = 0;
    const char *search_token;
    const char *tokend;
    PATH_VAR(sh_path);
    extern const char *default_shell;

    if (!token)
        search_token = default_shell;
    else
        search_token = atoken = xstrdup (token);

    /* If the user explicitly requests the DOS cmd shell, obey that request. 
    However, make sure that's what they really want by requiring the value 
    of SHELL either equal, or have a final path element of, "cmd" or 
    "cmd.exe" case-insensitive. */
    tokend = search_token + strlen (search_token) - 3;
    if (((tokend == search_token
        && (tokend[-1] == '/' || tokend[-1] == '\'))
        && !strcasecmp (tokend, "cmd"))
        || ((tokend - 4 == search_token
            && (tokend[-5] == '/' || tokend[-5] == '\'))
            && !strcasecmp (tokend - 4, "cmd.exe")))
    {
        batch_mode_shell = 1;
        unixy_shell = 0;
        sprintf (sh_path, "%s", search_token);
        default_shell = xstrdup (w32ify (sh_path, 0));
        DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
            default_shell));
        sh_found = 1;
    }
    else if (!no_default_sh_exe
        && (token == NULL || !strcmp (search_token, default_shell))
        && (tokend > search_token
            && (tokend[-1] == '/' || tokend[-1] == '\'))
        && !strcasecmp (tokend, "cmd"))
    {
        batch_mode_shell = 1;
        unixy_shell = 0;
        sprintf (sh_path, "%s", search_token);
        default_shell = xstrdup (w32ify (sh_path, 0));
        DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
            default_shell));
        sh_found = 1;
    }
}
{ /* no new information, path already set or known */
    sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
    /* search token path was found */
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, ("find_and_set_shell() setting default_shell = %s\n"),
        default_shell);
    sh_found = 1;
}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;

        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);
        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
                *ep = PATH_SEPARATOR_CHAR;

                /* terminate loop */
                p += strlen (p);
            }
            else
            {
                *ep = PATH_SEPARATOR_CHAR;
                p = ++ep;
            }
        }
        ep = strchr (p, PATH_SEPARATOR_CHAR);
    }
}
/* be sure to check last element of Path */
if (p && *p)
{
    sprintf (sh_path, "%s/%s", p, search_token);
    if (_access (sh_path, 0) == 0)
    {
        default_shell = xstrdup (w32ify (sh_path, 0));
        sh_found = 1;
    }
}

if (sh_found)
    DB (DB_VERBOSE,
        (__("find_and_set_shell() path search set default_shell = %s\n"),
         default_shell));

/* naive test */
if (!unixy_shell && sh_found && (strstr (default_shell, "sh") || strstr (default_shell, "SH"))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#endif /* WINDOWS32 */

#ifdef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);
#endif /* WINDOWS32 */

#elifdef __MSDOS__

static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver (void)
#ifdef _AMIGA

int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
#ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;
    SetUnhandledExceptionFilter (handle_runtime_exceptions);
    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
#endif
output_init (&make_sync);

initialize_stopchar_map();

#ifdef SET_STACK_SIZE
    /* Get rid of any avoidable limit on stack size. */
    {
        struct rlimit rlim;

        /* Set the stack limit huge so that alloca does not fail. */
        if (getrlimit (RLIMIT_STACK, &rlim) == 0
            && rlim.rlim_cur > 0 && rlim.rlim_cur < rlim.rlim_max)
            {
                stack_limit = rlim;
                rlim.rlim_cur = rlim.rlim_max;
                setrlimit (RLIMIT_STACK, &rlim);
            }
#endif
}
else
    stack_limit.rlim_cur = 0;
}
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#ifdef (__MSDOS__) && !defined (_POSIX_SOURCE)
/* Request the most powerful version of `system`, to
   make up for the dumb default shell. */
__system_flags = (__system_redirect
    | __system_use_shell
    | __system_allow_multiple_cmds
    | __system_allow_long_cmds
    | __system_handle_null_commands
    | __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that
disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifndef POSIX
    sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig)    sigaddset (&fatal_signal_set, sig)
#else
#define ADD_SIG(sig)    (void)sig
#endif
#define FATAL_SIG(sig)                                                        
                        if (bsd_signal (sig, fatal_error_signal) == SIG_IGN)                        
                        bsd_signal (sig, SIG_IGN);

Open Source Used In Callisto_PSIRT 1.3.2 1238
else
    ADD_SIG (sig);
#endif

#define SIGHUP
FATAL_SIG (SIGHUP);
#endif
#define SIGQUIT
FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);
#endif

#define __MSDOS__
/* Windows 9X delivers FP exceptions in child programs to their
   parent! We don't want Make to die when a child divides by zero,
   so we work around that lossage by catching SIGFPE. */
FATAL_SIG (SIGFPE);
#endif
#endif
#define SIGDANGER
FATAL_SIG (SIGDANGER);
#endif
#define SIGXCPU
FATAL_SIG (SIGXCPU);
#endif
#define SIGXFSZ
FATAL_SIG (SIGXFSZ);
#endif
#undef FATAL_SIG
/* Do not ignore the child-death signal. This must be done before
   any children could possibly be created; otherwise, the wait
   functions won't work on systems with the SVR4 ECHILD brain
   damage, if our invoker is ignoring this signal. */
#endif
#define HAVE_WAIT_NOHANG
# if defined SIGCHLD
(void) bsd_signal (SIGCHLD, SIG_DFL);
#endif
#define SIGCLD && SIGCLD && SIGCHLD
#if defined SIGCLD
(void) bsd_signal (SIGCLD, SIG_DFL);
#endif

output_init (NULL);

/* Figure out where this program lives. */
if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == \0)
    program = "make";
else
{
    program = strrchr (argv[0], '/');
#if defined(__MSDOS__) || defined(_EMX_)
    if (program == 0)
        program = strrchr (argv[0], '\');
    else
    {
        /* Some weird environments might pass us argv[0] with
           both kinds of slashes; we must find the rightmost. */
        char *p = strrchr (argv[0], '\');
        if (p && p > program)
            program = p;
    }
    if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
#endif
#endif
#ifdef WINDOWS32
    if (program == 0)
    {
        /* Extract program from full path */
        program = strrchr (argv[0], '\');
        if (program)
        {
            int argv0_len = strlen (program);
            if (argv0_len > 4 && streq (argv0_len - 4, ".exe"))
                /* Remove .exe extension */
                program[argv0_len - 4] = '\0';
        }
    }
#endif
#ifdef VMS
    set_program_name (argv[0]);
    program = program_name;
    {
        const char *shell;
        char pwdbuf[256];
        char *pwd;
        shell = getenv ("SHELL");
        if (shell != NULL)
            vms_gnv_shell = 1;
        vms_gnv_shell = 1;
    }
    /* Need to know if CRTL set to report UNIX paths. Use getcwd as
it works on all versions of VMS. */
pwd = getcwd(pwdbuf, 256);
if (pwd[0] == '/')
    vms_report_unix_paths = 1;

vms_use_mcr_command = get_vms_env_flag("GNV$MAKE_USE_MCR", 0);

vms_always_use_cmd_file = get_vms_env_flag("GNV$MAKE_USE_CMD_FILE", 0);

/* Legacy behavior is on VMS is older behavior that needed to be
changed to be compatible with standard make behavior.
For now only completely disable when running under a Bash shell.
TODO: Update VMS built in recipes and macros to not need this
behavior, at which time the default may change. */
vms_legacy_behavior = get_vms_env_flag("GNV$MAKE_OLD_VMS",
    !vms_gnv_shell);

/* VMS was changed to use a comma separator in the past, but that is
incompatible with built in functions that expect space separated
lists. Allow this to be selectively turned off. */
vms_comma_separator = get_vms_env_flag("GNV$MAKE_COMMA",
    vms_legacy_behavior);

/* Some Posix shell syntax options are incompatible with VMS syntax.
VMS requires double quotes for strings and escapes quotes
differently. When this option is active, VMS will try
to simulate Posix shell simulations instead of using
VMS DCL behavior. */
vms_unix_simulation = get_vms_env_flag("GNV$MAKE_SHELL_SIM",
    !vms_legacy_behavior);

}
if (need_vms_symbol () && !vms_use_mcr_command)
    create_foreign_command (program_name, argv[0]);
#else
    if (program == 0)
        program = argv[0];
    else
        ++program;
#endif

/* Set up to access user data (files). */
user_access ();
initialize_global_hash_tables ();

/* Figure out where we are. */
#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
#ifdef HAVE_GETCWD
    perror_with_name ("getcwd", ";");
#else
    OS (error, NILF, "getwd: %s", current_directory);
#endif
    current_directory[0] = '\0';
    directory_before_chdir = 0;
}
else
    directory_before_chdir = xstrdup (current_directory);
#endif
#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", ",", o_default, 0)->special = 1;
define_variable_cname (".TARGETS", ",", o_default, 0)->special = 1;
define_variable_cname (".RECIPEPREFIX", ",", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", "-c", o_default, 0);
define_variable_cname (".LOADED", ",", o_default, 0);

/* Set up .FEATURES
Use a separate variable because define_variable_cname() is a macro and
some compilers (MSVC) don't like conditionals in macros. */
{
    const char *features = "target-specific order-only second-expansion"
        " else-if shortest-stem undefine oneshell"
#ifndef NO_ARCHIVES
    " archives"
#endif
#ifndef MAKE_JOBSERVER
    " jobserver"
#endif
#ifndef NO_OUTPUT_SYNC
    " output-sync"
#endif
#ifndef MAKE_SYMLINKS
    " check-symlink"
#endif

ifdef HAVE_GUILE
   " guile"
endif
ifdef MAKE_LOAD
   " load"
endif
;

define_variable_cname (".FEATURES", features, o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be done before $(MAKE) is figured out so its definitions will not be from the environment. */
#endif

ifndef _AMIGA
{
    unsigned int i;

    for (i = 0; envp[i] != 0; ++i)
    {
        struct variable *v;
        const char *ep = envp[i];

        /* By default, export all variables culled from the environment. */
        enum variable_export export = v_export;
        unsigned int len;
        while (!STOP_SET (*ep, MAP_EQUALS))
            ++ep;

        /* If there's no equals sign it's a malformed environment. Ignore. */
        if (*ep == '\0')
            continue;

        ifndef WINDOWS32
            if (!unix_path && strneq (envp[i], "PATH=", 5))
                unix_path = ep+1;
            else if (!strcmp (envp[i], "Path=", 5))
                if (!windows32_path)
                    windows32_path = ep+1;
            /* PATH gets defined after the loop exits. */
        endif
    }
endif
/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed
the enter statement" flag is set. */
if (len == 13 && strneq (envp[i], "MAKE_RESTARTS", 13))
{
  if (*ep == '-')
  {
    OUTPUT_TRACED ();
    ++ep;
  }
  restarts = (unsigned int) atoi (ep);
  export = v_noexport;
}

v = define_variable (envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the
value of SHELL given to subprocesses. */
if (streq (v->name, "SHELL"))
{
  ifndef __MSDOS__
    export = v_noexport;
  endif
  shell_var.name = xstrdup ("SHELL");
  shell_var.length = 5;
  shell_var.value = xstrdup (ep);
}

v->export = export;
}
#endif
#ifdef WINDOWS32
/* If we didn't find a correctly spelled PATH we define PATH as
* either the first misspelled value or an empty string
*/
if (!unix_path)
  define_variable_cname ("PATH", windows32_path ? windows32_path : "", o_env, 1)->export = v_export;
#endif
#else /* For Amiga, read the ENV: device, ignoring all dirs */
{
  BPTR env, file, old;
  char buffer[1024];
  int len;
  __aligned struct FileInfoBlock fib;
env = Lock("ENV:'', ACCESS_READ);
if (env)
{
    old = CurrentDir(DupLock(env));
    Examine(env, &fib);

    while (ExNext(env, &fib))
    {
        if (fib.fib_DirEntryType < 0) /* File */
        {
            /* Define an empty variable. It will be filled in
            variable_lookup(). Makes startup quite a bit faster. */
            define_variable(fib.fib_FileName,
                           strlen(fib.fib_FileName),
                           ",", o_env, 1)->export = v_export;
        }
    }
    UnLock(env);
    UnLock(CurrentDir(old));
}
#endif

/* Decode the switches. */
decode_env_switches(STRING_SIZE_TUPLE("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname("GNUMAKEFLAGS", ",", o_env, 0);

decode_env_switches(STRING_SIZE_TUPLE("MAKEFLAGS"));

#if 0
/* People write things like:
   MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches(STRING_SIZE_TUPLE("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading
the makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */
syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET(&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
int env_slots = arg_job_slots;
arg_job_slots = INVALID_JOB_SLOTS;

decode_switches (argc, (const char **)argv, 0);
argv_slots = arg_job_slots;

if (arg_job_slots == INVALID_JOB_SLOTS)
arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#if defined HAVE_ISATTY
if (isatty (fileno (stdout)))
if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
{
    const char *tty = TTYNAME (fileno (stdout));
define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
o_default, 0)->export = v_export;
}
if (isatty (fileno (stderr)))
if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
{
    const char *tty = TTYNAME (fileno (stderr));
define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
o_default, 0)->export = v_export;
}
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
|| output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v && v->value[0] != '-' && v->value[0] != '0')
        makelevel = (unsigned int) atoi (v->value);
    else
        makelevel = 0;
}
#endif WINDOWS32
if (suspend_flag)
{
    fprintf (stderr, "%s (pid = %ld)\n", argv[0], GetCurrentProcessId ());
    fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
    Sleep (30 * 1000);
    fprintf (stderr, _("done sleep(30). Continuing.\n");
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();

#endif VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#ifndef WINDOWS32
/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */
if (strpbrk (argv[0], "/\") || strstr (argv[0], ".")
    || strcmp (argv[0], "/", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#if defined (__MSDOS__) || defined (__EMX__)
if (strchr (argv[0], '\'))
{
    char *p;

    argv[0] = xstrdup (argv[0]);
    for (p = argv[0]; *p; p++)
        if (*p == '\')
            *p = '/';

Open Source Used In Callisto_PSIRT 1.3.2  1247
}
/* If argv[0] is not in absolute form, prepend the current
directory. This can happen when Make is invoked by another DJGPP
program that uses a non-absolute name. */
if (current_directory[0] != '\0'
&& argv[0] != 0
&& (argv[0][0] != '/' && (argv[0][0] == '\0' || argv[0][1] != ':'))
# ifdef __EMX__
/* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
&& (strchr (argv[0], '/') != 0 || strchr (argv[0], '\\') != 0)
# endif
)
argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#else /* !__MSDOS__ */
if (current_directory[0] != '\0'
&& argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
#ifdef HAVE_DOS_PATHS
&& (argv[0][0] != '\\' && (!argv[0][0] || argv[0][1] != ':'))
&& strchr (argv[0], '\\') != 0
#endif
)
argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#endif /* !__MSDOS__ */
#endif /* WINDOWS32 */
#endif
/* We may move, but until we do, here we are. */
starting_directory = current_directory;
/* Set up the job_slots value and the jobserver. This can't be usefully set
in the makefile, and we want to verify the authorization is valid before
make has a chance to start using it for something else. */
if (jobserver_auth)
{
if (argv_slots == INVALID_JOB_SLOTS)
{
if (jobserver_parse_auth (jobserver_auth))
{
/* Success! Use the jobserver. */
job_slots = 0;
goto job_setup_complete;
}
O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
arg_job_slots = 1;
}

Open Source Used In Callisto_PSIRT 1.3.2 1248


/* The user provided a -j setting on the command line: use it. */
else if (!restarts)
/* If restarts is >0 we already printed this message. */
O (error, NILF,
_("warning: -jN forced in submake: disabling jobserver mode."));
/* We failed to use our parent's jobserver. */
reset_jobserver ();
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
/* The default is one job at a time. */
job_slots = 1;
else
/* Use whatever was provided. */
job_slots = (unsigned int)arg_job_slots;
job_setup_complete:
/* The extra indirection through $(MAKE_COMMAND) is done
for hysterical raisins. */
#ifdef VMS
if (vms_use_mcr_command)
define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$(MAKE_COMMAND)", o_default, 1);
if (command_variables != 0)
{
struct command_variable *cv;
struct variable *v;
unsigned int len = 0;
char *value, *p;
/* Figure out how much space will be taken up by the command-line
variable definitions. */
for (cv = command_variables; cv != 0; cv = cv->next)
{
v = cv->variable;
len += 2 * strlen (v->name);
if (! v->recursive)
++len;
++len;

Open Source Used In Callisto_PSIRT 1.3.2 1249


len += 2 * strlen(v->value);
++len;
}

/* Now allocate a buffer big enough and fill it. */
p = value = alloca(len);
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    p = quote_for_env(p, v->name);
    if (! v->recursive)
        *p++ = ':';
    *p++ = '=';
    p = quote_for_env(p, v->value);
    *p++ = ' ';
}
p[-1] = '0';  /* Kill the final space and terminate. */

/* Define an unchangeable variable with a name that no POSIX.2
makefile could validly use for its own variable. */
define_variable_cname("*-command-variables-*-", value, o_automatic, 0);

/* Define the variable; this will not override any user definition.
Normally a reference to this variable is written into the value of
MAKEFLAGS, allowing the user to override this value to affect the
exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
a reference to this hidden variable is written instead. */
define_variable_cname("MAKEOVERRIDES", "${-*command-variables-*-}",
o_env, 1);
#ifdef VMS
    vms_export_dcl_symbol("MAKEOVERRIDES", "${-*command-variables-*-}");
#endif

/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {
        const char *dir = directories->list[i];
        #ifdef WINDOWS32
            /* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
            But allow -C/ just in case someone wants that. */
        
            char *p = (char *)dir + strlen(dir) - 1;
            while (p > dir && (p[0] == '/' || p[0] == '\'))
-p:
    p[1] = '0';
}
#endif
    if (chdir (dir) < 0)
        pfatal_with_name (dir);
}
}

#ifdef WINDOWS32
/*
 * THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
 * TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c.
 *
 * The functions in dir.c can incorrectly cache information for ".``
 * before we have changed directory and this can cause file
 * lookups to fail because the current directory (.) was pointing
 * at the wrong place when it was first evaluated.
 */
    no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_builtin_variables_flag)
    no_builtin_rules_flag = 1;

/* Construct the list of include directories to search. */
construct_include_path (include_directories == 0
    ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)
{
    #ifdef WINDOWS32
        if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
    #else
        if (getcwd (current_directory, GET_PATH_MAX) == 0)
    #endif
ifdef HAVE_GETCWD
    perror_with_name("getcwd", ":");
#else
    OS (error, NILF, "getwd: %s", current_directory);
#endif

starting_directory = 0;
} else
    starting_directory = current_directory;
}

define_variable_cname("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '0')
            /* This makefile is standard input. Since we may re-exec
               and thus re-read the makefiles, we read standard input
               into a temporary file and read from that. */
            FILE *outfile;
            char *template;
            const char *tmpdir;

            if (stdin_nm)
                O (fatal, NILF,
                    _("Makefile from standard input specified twice.")
                    
            if (VMS)
                
                if (P_tmpdir)
                    
                ifndef P_tmpdir
                    
                endif
            #endif
        define DEFAULT_TMPDIR "GmXXXXXX"
        if (((tmpdir = getenv("TMPDIR")) == NULL || *tmpdir == '0')
            #if defined (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)
                /* These are also used commonly on these platforms. */
            && ((tmpdir = getenv("TEMP")) == NULL || *tmpdir == '0')
            && ((tmpdir = getenv("TMP")) == NULL || *tmpdir == '0')
            
Open Source Used In Callisto_PSIRT 1.3.2  1252


#ifndef HAVE_DOS_PATHS
    if (strchr ("\\", template[strlen (template) - 1]) == NULL)
        strcat (template, "/");
#else
    # ifndef VMS
        if (template[strlen (template) - 1] != '/')
            strcat (template, "/");
    # endif /* !VMS */
# endif /* !HAVE_DOS_PATHS */

strcat (template, DEFAULT_TMPFILE);
outfile = output_tmpfile (&stdin_nm, template);
if (outfile == 0)
    pfatal_with_name (_("fopen (temporary file)"));
while (!feof (stdin) && !ferror (stdin))
{
    char buf[2048];
    unsigned int n = fread (buf, 1, sizeof (buf), stdin);
    if (n > 0 && fwrite (buf, 1, n, outfile) != n)
        pfatal_with_name (_("fwrite (temporary file)"));
}
fclose (outfile);

/* Replace the name that read_all_makefiles will see with the name of the temporary file. */
makefiles->list[i] = strcache_add (stdin_nm);

/* Make sure the temporary file will not be remade. */
{
    struct file *f = enter_file (strcache_add (stdin_nm));
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
/* Can't be intermediate, or it'll be removed too early for make re-exec. */
    f->intermediate = 0;
    f->dontcare = 0;
}
}
/* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSERVER)
/* Set up to handle children dying. This must be done before
reading in the makefiles so that 'shell' function calls will work.

If we don't have a hanging wait we have to fall back to old, broken
functionality here and rely on the signal handler and counting
children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is
not ignored; we need it to interrupt the read(2) of the jobserver pipe if
we're waiting for a token.

If none of these are true, we don't need a signal handler at all. */
{
#if defined SIGCHLD
    bsd_signal (SIGCHLD, child_handler);
#endif
#if defined SIGCLD && SIGCLD != SIGCHLD
    bsd_signal (SIGCLD, child_handler);
#endif
}
#endif
#endif
#if defined HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
    sigset_t block;
    sigemptyset (&block);
    sigaddset (&block, SIGCHLD);
    if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
        pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
}
#endif
#endif

/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
    sigset_t block;
    sigemptyset (&block);
    sigaddset (&block, SIGCHLD);
    if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
        pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
}
#endif
#endif

/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#if define SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes ();

/* Define the file rules for the built-in suffix rules. These will later
be converted into pattern rules. We used to do this in
install_default_implicit_rules, but since that happens after reading

Open Source Used In Callisto_PSIRT 1.3.2 1254
makefiles, it results in the built-in pattern rules taking precedence over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules();

/* Define some internal and special variables. */
define_automatic_variables();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see.
   Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables();

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", "", o_file, 0);

/* Evaluate all strings provided with --eval.
   Also set up the $(-*-eval-flags-*-) variable. */

if (eval_strings)
{
    char *p, *value;
    unsigned int i;
    unsigned int len = (CSTRLEN("--eval=") + 1) * eval_strings->idx;

    for (i = 0; i < eval_strings->idx; ++i)
    {
        p = xstrdup (eval_strings->list[i]);
        len += 2 * strlen (p);
        eval_buffer (p, NULL);
        free (p);
    }

    p = value = alloca (len);
    for (i = 0; i < eval_strings->idx; ++i)
    {
        strcpy (p, "--eval=");
        p += CSTRLEN("--eval=");
        p = quote_for_env (p, eval_strings->list[i]);
        *(p++) = ' ';
    }
    p[-1] = '0';

    define_variable_cname ("-*eval-flags-*,", value, o_automatic, 0);
}
/* Read all the makefiles. */

read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
    no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
    extern int _is_unixy_shell (const char *path);
    struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
    extern int unixy_shell;
    extern const char *default_shell;
    if (shv && *shv->value)
    {
        char *shell_path = recursively_expand (shv);

        if (shell_path && _is_unixy_shell (shell_path))
            unixy_shell = 1;
        else
            unixy_shell = 0;
        if (shell_path)
            default_shell = shell_path;
    }
}
#endif /* __MSDOS__ || __EMX__ */

{
    int old_builtin_rules_flag = no_builtin_rules_flag;
    int old_builtin_variables_flag = no_builtin_variables_flag;

    /* Decode switches again, for variables set by the makefile. */
    decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

    /* Clear GNUMAKEFLAGS to avoid duplication. */
    define_variable_cname ("GNUMAKEFLAGS", ",", o_override, 0);

    decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
    #if 0
    decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
    #endif

    /* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
   || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
    if (suffix_file->builtin)
    {
        free_dep_chain (suffix_file->deps);
        suffix_file->deps = 0;
    }
    define_variable_cname ("SUFFIXES", ",", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
    undefine_default_variables ();

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
if (arg_job_slots != 1
    #ifdef __EMX__
    && _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
    #endif
)
{
    O (error, NILF, 
        ",Parallel jobs (-j) are not supported on this platform.");
    O (error, NILF, ",Resetting to single job (-j1) mode.");
    arg_job_slots = job_slots = 1;
}
#endif

/* If we have >1 slot at this point, then we're a top-level make. 
   Set up the jobserver.

   Every make assumes that it always has one job it can run. For the 
   submakes it's the token they were given by their parent. For the top 
   make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{

/* Fill in the jobserver_auth for our children. */
jobserver_auth = jobserver_get_auth();

if (jobserver_auth)
{
    /* We're using the jobserver so set job_slots to 0. */
    master_job_slots = job_slots;
    job_slots = 0;
}

/* If we're not using parallel jobs, then we don't need output sync.
   This is so people can enable output sync in GNUMAKEFLAGS or similar, but
   not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */
define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file
depended on. Also do magic for special targets. */
snap_deps ()

/* Convert old-style suffix rules to pattern rules. It is important to
do this before installing the built-in pattern rules below, so that
makefile-specified suffix rules take precedence over built-in pattern
rules. */
convert_to_pattern ()

/* Install the default implicit pattern rules.
   This used to be done before reading the makefiles. */
But in that case, built-in pattern rules were in the chain before user-defined ones, so they matched first. */

install_default_implicit_rules ();

/** Compute implicit rule limits. */
count_implicit_rule_limits ();

/** Construct the listings of directories in VPATH lists. */
build_vpath_lists ();

/** Mark files given with -o flags as very old and as having been updated already, and files given with -W flags as brand new (time-stamp as far as possible into the future). If restarts is set we'll do -W later. */

if (old_files != 0)
{
    const char **p;
    for (p = old_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = OLD_MTIME;
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
    }
}

if (!restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/** Initialize the remote job module. */
remote_setup ();

/** Dump any output we've collected. */
OUTPUT_UNSET ();
output_close (&make_sync);
if (read_files != 0)
{
    /* Update any makefiles if necessary. */

    FILE_TIMESTAMP *makefile_mtime = 0;
    unsigned int mm_idx = 0;
    char **argv = NULL;
    const char **nargv;
    int nargc;
    enum update_status status;

    DB (DB_BASIC, (_("Updating makefiles...
")));

    /* Remove any makefiles we don't want to try to update. 
     * Also record the current modtimes so we can compare them later. */
    register struct goaldep *d, *last;
    last = 0;
    d = read_files;
    while (d != 0)
    {
        struct file *f = d->file;
        if (f->double_colon)
            for (f = f->double_colon; f != NULL; f = f->prev)
            {
                if (f->deps == 0 && f->cmds != 0)
                {
                    /* This makefile is a :: target with commands, but 
                     * no dependencies. So, it will always be remade. 
                     * This might well cause an infinite loop, so don't 
                     * try to remake it. (This will only happen if 
                     * your makefiles are written exceptionally 
                     * stupidly; but if you work for Athena, that's how 
                     * you write your makefiles.) */

                    DB (DB_VERBOSE,
                        (_("Makefile '%s' might loop; not remaking it.
"),
                         f->name));

                    if (last == 0)
                        read_files = d->next;
                    else
                        last->next = d->next;

                    /* Free the storage. */
                    free_goaldep (d);

                    d = last == 0 ? read_files : last->next;
                }
            }
if (f == NULL || !f->double_colon)
{
    makefile_mtimes = xrealloc (makefile_mtimes,
        (mm_idx+1)
        * sizeof (FILE_TIMESTAMP));
    makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);
{
    int orig_db_level = db_level;
    if (!ISDB (DB_MAKEFILES))
        db_level = DB_NONE;
    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;
    db_level = orig_db_level;
}

switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified -q and asked
           for one of the makefiles to be remade as a target on the command
           line. Since we're not actually updating anything with -q we can
           treat this as "did nothing". */
        break;

    case us_none:
        /* Did nothing. */
        break;

    case us_failed:
        /* Failed to update. Figure out if we care. */
        break;
/** Nonzero if any makefile was successfully remade. */
int any_remade = 0;

/* Nonzero if any makefile we care about failed */
/* in updating or could not be found at all. */
int any_failed = 0;

unsigned int i;
struct goaldep *d;

for (i = 0, d = read_files; d != 0; ++i, d = d->next)
{
    if (d->file->updated)
    {
        /* This makefile was updated. */
        if (d->file->update_status == us_success)
        {
            /* It was successfully updated. */
            any_remade |= (file_mtime_no_search (d->file)
                            != makefile_mtimes[i]);
        }
        else if (! (d->flags & RM_DONTCARE))
        {
            FILE_TIMESTAMP mtime;
            /* The update failed and this makefile was not */
            /* from the MAKEFILES variable, so we care. */
            OS (error, NILF, _("Failed to remake makefile '%s'."),
                d->file->name);
            mtime = file_mtime_no_search (d->file);
            any_remade |= (mtime != NONEXISTENT_MTIME
                            && mtime != makefile_mtimes[i]);
            makefile_status = MAKE_FAILURE;
        }
    }
    else
    {
        /* This makefile was not found at all. */
        if (! (d->flags & RM_DONTCARE))
        {
            const char *dnm = dep_name (d);
            size_t l = strlen (dnm);

            /* This is a makefile we care about. See how much. */
            if (d->flags & RM_INCLUDED)
            {
                /* An included makefile. We don't need to die, but we */
                /* do want to complain. */
                error (NILF, 1,
                        _("Included makefile '%s' was not found."),
                        dnm);
            }
            else
            {
                /* A normal makefile. We must die later. */
            }
        }
    }
}

/* Nonzero if any makefile was successfully remade. */
int any_remade = 0;

/* Nonzero if any makefile we care about failed */
/* in updating or could not be found at all. */
int any_failed = 0;

unsigned int i;
struct goaldep *d;

for (i = 0, d = read_files; d != 0; ++i, d = d->next)
{
    if (d->file->updated)
    {
        /* This makefile was updated. */
        if (d->file->update_status == us_success)
        {
            /* It was successfully updated. */
            any_remade |= (file_mtime_no_search (d->file)
                            != makefile_mtimes[i]);
        }
        else if (! (d->flags & RM_DONTCARE))
        {
            FILE_TIMESTAMP mtime;
            /* The update failed and this makefile was not */
            /* from the MAKEFILES variable, so we care. */
            OS (error, NILF, _("Failed to remake makefile '%s'."),
                d->file->name);
            mtime = file_mtime_no_search (d->file);
            any_remade |= (mtime != NONEXISTENT_MTIME
                            && mtime != makefile_mtimes[i]);
            makefile_status = MAKE_FAILURE;
        }
    }
    else
    {
        /* This makefile was not found at all. */
        if (! (d->flags & RM_DONTCARE))
        {
            const char *dnm = dep_name (d);
            size_t l = strlen (dnm);

            /* This is a makefile we care about. See how much. */
            if (d->flags & RM_INCLUDED)
            {
                /* An included makefile. We don't need to die, but we */
                /* do want to complain. */
                error (NILF, 1,
                        _("Included makefile '%s' was not found.")),
                        dnm);
            }
            else
            {
                /* A normal makefile. We must die later. */
            }
        }
    }
}

/* Nonzero if any makefile was successfully remade. */
int any_remade = 0;

/* Nonzero if any makefile we care about failed */
/* in updating or could not be found at all. */
int any_failed = 0;

unsigned int i;
struct goaldep *d;

for (i = 0, d = read_files; d != 0; ++i, d = d->next)
{
    if (d->file->updated)
    {
        /* This makefile was updated. */
        if (d->file->update_status == us_success)
        {
            /* It was successfully updated. */
            any_remade |= (file_mtime_no_search (d->file)
                            != makefile_mtimes[i]);
        }
        else if (! (d->flags & RM_DONTCARE))
        {
            FILE_TIMESTAMP mtime;
            /* The update failed and this makefile was not */
            /* from the MAKEFILES variable, so we care. */
            OS (error, NILF, _("Failed to remake makefile '%s'."),
                d->file->name);
            mtime = file_mtime_no_search (d->file);
            any_remade |= (mtime != NONEXISTENT_MTIME
                            && mtime != makefile_mtimes[i]);
            makefile_status = MAKE_FAILURE;
        }
    }
    else
    {
        /* This makefile was not found at all. */
        if (! (d->flags & RM_DONTCARE))
        {
            const char *dnm = dep_name (d);
            size_t l = strlen (dnm);

            /* This is a makefile we care about. See how much. */
            if (d->flags & RM_INCLUDED)
            {
                /* An included makefile. We don't need to die, but we */
                /* do want to complain. */
                error (NILF, 1,
                        _("Included makefile '%s' was not found.")),
                        dnm);
            }
            else
            {
                /* A normal makefile. We must die later. */
            }
        }
    }
}
error (NILF, 1,  
  \(_\text{("Makefile '%s' was not found"), dnm);}  
  any_failed = 1;  
  }  
  }  
  */ Reset this to empty so we get the right error message below. */  
  read_files = 0;  
  
  if (any_remade)  
      goto re_exec;  
  if (any_failed)  
      die (MAKE_FAILURE);  
      break;  
  }  
  
  case us_success:  
      re_exec:  
      /* Updated successfully. Re-exec ourselves. */  
      remove_intermediates (0);  
      if (print_data_base_flag)  
          print_data_base ();  
          clean_jobserver (0);  
          
          if (makefiles != 0)  
              {  
                  /* These names might have changed. */  
                  int i, j = 0;  
                  for (i = 1; i < argc; ++i)  
                      if (strneq (argv[i], "-f", 2)) /* XXX */  
                          {  
                              if (argv[i][2] == '0')  
                                  /* This cast is OK since we never modify argv. */  
                                      argv[++i] = (char *) makefiles->list[j];  
                                      else  
                                          argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));  
                                          ++j;  
                                      }  
                                  }  
                      
                      /* Add -o option for the stdin temporary file, if necessary. */  
                      nargc = argc;  
                      if (stdin_nm)  
                          {  
                              void *m = xmalloc ((nargc + 2) * sizeof (char *));  
                          }
aargv = m;
memcpy (aargv, argv, argc * sizeof (char *));
aargv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
aargv[nargc] = 0;
nargv = m;
}
else
nargv = (const char**)argv;

if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", ");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF, 
            _("Couldn't change back to original directory.");
    }
++restarts;

if (ISDB (DB_BASIC))
{
    const char **p;
    printf ("Re-executing[%u]:", restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" %s", *p);
    putchar ('
');
    fflush (stdout);
}
#endif _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME ",", MAKELEVEL_LENGTH+1))
            *
        *p = alloca (40);
        sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
    }
    #ifdef VMS
    vms_putenv_symbol (*p);
    #endif
else if (strcmp (*p, "MAKE_RESTARTS="))
{
    *p = alloca (40);
    sprintf (*p, "MAKE_RESTARTS=%s%u",
            OUTPUT_IS_TRACED() ? "-" : "", restarts);
    restarts = 0;
}
}
#endif /* AMIGA */

/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
    char *b = alloca (40);
    sprintf (b, "MAKE_RESTARTS=%s%u",
            OUTPUT_IS_TRACED() ? "-" : "", restarts);
    putenv (b);
}
fflush (stdout);
fflush (stderr);
#ifdef _AMIGA
    exec_command (nargv);
    exit (0);
#elif defined (__EMX__)
    /* It is not possible to use execve() here because this
     * would cause the parent process to be terminated with
     * exit code 0 before the child process has been terminated.
     * Therefore it may be the best solution simply to spawn the
     * child process including all file handles and to wait for its
     * termination. */
    int pid;
    int r;
#endif
pid = child_execute_job (NULL, 1, nargv, environ);

/* is this loop really necessary? */
do {
    pid = wait (&r);
} while (pid <= 0);
/* use the exit code of the child process */
exit (WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
#endif
#endif
/* Reset limits, if necessary. */
if (stack_limit.rlim_cur)
    setrlimit (RLIMIT_STACK, &stack_limit);
#endif
exec_command ((char **)nargv, environ);
#endif
free (aargv);
break;
/* Free the makefile mtimes. */
free (makefile_mtimes);
/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);
/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;
/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}
/* If there is a temp file from reading a makefile from stdin, get rid of it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);
/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
            strlen (default_goal_var->value));
        *p = '0';
        p = variable_buffer;
    }

    if (*p != '0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the
         * table and let the standard logic sort it out. */
        if (f == 0)
        {
            struct nameseq *ns;

            ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
            if (ns)
            {
                /* .DEFAULT_GOAL should contain one target. */
                if (ns->next != 0)
                    O (fatal, NILF,
                        ""_.DEFAULT_GOAL contains more than one target");

                f = enter_file (strcache_add (ns->name));

                ns->name = 0; /* It was reused by enter_file(). */
                free_ns_chain (ns);
            }
        }
        if (f)
        {
            goals = alloc_goaldep ();
            goals->file = f;
        }
    }
else
    lastgoal->next = 0;
if (!goals)
{
if (read_files == 0)
O (fatal, NILF, _("No targets specified and no makefile found"));
O (fatal, NILF, _("No targets"));
}
/* Update the goals. */
DB (DB_BASIC, (_("Updating goal targets....\n")));
{
switch (update_goal_chain (goals))
{
case us_none:
/* Nothing happened. */
/* FALLTHROUGH */
case us_success:
/* Keep the previous result. */
break;
case us_question:
/* We are under -q and would run some commands. */
makefile_status = MAKE_TROUBLE;
break;
case us_failed:
/* Updating failed. POSIX.2 specifies exit status >1 for this; */
makefile_status = MAKE_FAILURE;
break;
}
/* If we detected some clock skew, generate one last warning */
if (clock_skew_detected)
O (error, NILF,
_("warning: Clock skew detected. Your build may be incomplete."));
/* Exit. */
die (makefile_status);
}
/* NOTREACHED */
exit (MAKE_SUCCESS);
}
/* Parsing of arguments, decoding of switches. */

Open Source Used In Callisto_PSIRT 1.3.2 1268


static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
                      (sizeof (long_option_aliases) /
                      sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt. */
static void init_switches (void)
{
    char *p;
    unsigned int i;

    if (options[0] != '\0')
        /* Already done. */
        return;

    p = options;

    /* Return switch and non-switch args in order, regardless of
     POSIXLY_CORRECT. Non-switch args are returned as option 1. */
    *p++ = '-';

    for (i = 0; switches[i].c != '\0'; ++i)
    {
        long_options[i].name = (switches[i].long_name == 0 ? "" :
                           switches[i].long_name);
        long_options[i].flag = 0;
        long_options[i].val = switches[i].c;
        if (short_option (switches[i].c))
            *p++ = switches[i].c;
        switch (switches[i].type)
        {
            case flag;
            case flag_off;
            case ignore:
                long_options[i].has_arg = no_argument;
                break;

            case string:
            case strlist:
            case filename:
            case positive_int:
            case floating:
                if (short_option (switches[i].c))
                    *p++ = ':';
                if (switches[i].noarg_value != 0)
    {
if (short_option (switches[i].c))
*p++ = ':';
long_options[i].has_arg = optional_argument;
}
else
long_options[i].has_arg = required_argument;
break;
}
}
*p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
sizeof (long_option_aliases[0]));
++c)
long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const char *arg, int env)
{
struct variable *v;
if (arg[0] == '-' && arg[1] == '\0')
/* Ignore plain '-' for compatibility. */
return;
#ifdef VMS
{
/* VMS DCL quoting can result in foo="bar baz" showing up here.
Need to remove the double quotes from the value. */
char * eq_ptr;
char * new_arg;
eq_ptr = strchr (arg, '=');
if ((eq_ptr != NULL) && (eq_ptr[1] == '"'))
{
int len;
int seg1;
int seg2;
len = strlen(arg);
new_arg = alloca(len);
seg1 = eq_ptr - arg + 1;
strncpy(new_arg, arg, (seg1));
seg2 = len - seg1 - 1;
strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
new_arg[seg1 + seg2] = 0;
if (new_arg[seg1 + seg2 - 1] == '"')

Open Source Used In Callisto_PSIRT 1.3.2 1270


new_arg[seg1 + seg2 - 1] = 0;
arg = new_arg;
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
    /* It is indeed a variable definition. If we don't already have this
     * one, record a pointer to the variable for later use in
     * define_makeflags. */
    struct command_variable *cv;

    for (cv = command_variables; cv != 0; cv = cv->next)
        if (cv->variable == v)
            break;

    if (! cv)
    {
        cv = xmalloc (sizeof (*cv));
        cv->variable = v;
        cv->next = command_variables;
        command_variables = cv;
    }
}
else if (! env)
{
    /* Not an option or variable definition; it must be a goal
     * target! Enter it as a file and add it to the dep chain of
     * goals. */
    struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
    f->cmd_target = 1;

    if (goals == 0)
    {
        goals = alloc_goaldep ();
        lastgoal = goals;
    }
    else
    {
        lastgoal->next = alloc_goaldep ();
        lastgoal = lastgoal->next;
    }

    lastgoal->file = f;

    /* Add this target name to the MAKECMDGOALS variable. */
struct variable *gv;
const char *value;

gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
if (gv == 0)
    value = f->name;
else
{
    /* Paste the old and new values together */
    unsigned int oldlen, newlen;
    char *vp;

    oldlen = strlen (gv->value);
    newlen = strlen (f->name);
    vp = alloca (oldlen + 1 + newlen + 1);
    memcpy (vp, gv->value, oldlen);
    vp[oldlen] = ' ';  
    memcpy (&vp[oldlen + 1], f->name, newlen + 1);
    value = vp;
}
define_variable_cname ("MAKECMDGOALS", value, o_default, 0);

/* Print a nice usage method. */
static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

    if (print_version_flag)
        print_version ()
    usageto = bad ? stderr : stdout;

    fprintf (usageto, 
    "Usage: %s [options] [target] ...
" , program);

    for (cpp = usage; *cpp; ++cpp)
        fputs (_(*cpp), usageto);

    if (!remote_description || *remote_description == '\0')
        fprintf (usageto, "This program built for %s\n" , make_host);
    else
        fprintf (usageto, "This program built for %s (%s)\n" , make_host, remote_description);
fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGC and ARGV.  
They came from the environment if ENV is nonzero. */

static void 
decode_switches (int argc, const char **argv, int env)
{
int bad = 0;
register const struct command_switch *cs;
register struct stringlist *sl;
register int c;

/* getopt does most of the parsing for us.  
First, get its vectors set up. */

init_switches ();

/* Let getopt produce error messages for the command line,  
but not for options from the environment. */
opterr = !env;
/* Reset getopt's state. */
optind = 0;

while (optind < argc)
{
const char *coptarg;

/* Parse the next argument. */
c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
coptarg = optarg;
if (c == EOF)
/* End of arguments, or "--" marker seen. */
break;
else if (c == 1)
/* An argument not starting with a dash. */
handle_non_switch_argument (coptarg, env);
else if (c == '?')
/* Bad option. We will print a usage message and die later.  
But continue to parse the other options so the user can  
see all he did wrong. */
bad = 1;
else
for (cs = switches; cs->c != '\0'; ++cs)
if (cs->c == c)
{
/* Whether or not we will actually do anything with this switch. We test this individually inside the switch below rather than just once outside it, so that options which are to be ignored still consume args. */
int doit = !env || cs->env;

switch (cs->type)
{
  default:
    abort();

  case ignore:
    break;

  case flag:
    case flag_off:
      if (doit)
        *(int *) cs->value_ptr = cs->type == flag;
      break;

  case string:
  case strlist:
  case filename:
    if (!doit)
      break;

    if (! coptarg)
      coptarg = xstrdup (cs->noarg_value);
    else if (*coptarg == '\0')
    {
      char opt[2] = "c";
      const char *op = opt;

      if (short_option (cs->c))
        opt[0] = cs->c;
      else
        op = cs->long_name;

      error (NILF, strlen (op),
        "_"("the '%s%s' option requires a non-empty string argument"),
        short_option (cs->c) ? "-" : "--", op);
      bad = 1;
      break;
    }

    if (cs->type == string)
    {
      char **val = (char **)cs->value_ptr;

      if (coptarg)
      {
        char **pp = coptarg;
        char **vp;
free (*val);
*val = xstrdup (coptarg);
break;
}

sl = *(struct stringlist **) cs->value_ptr;
if (sl == 0)
{
  sl = xmalloc (sizeof (struct stringlist));
  sl->max = 5;
  sl->idx = 0;
  sl->list = xmalloc (5 * sizeof (char *));
  *(struct stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{
  sl->max += 5;
  /* MSVC erroneously warns without a cast here. */
  sl->list = xrealloc ((void *)sl->list,
                     sl->max * sizeof (char *));
}
if (cs->type == filename)
sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
  sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
break;

case positive_int:
  /* See if we have an option argument; if we do require that
     it's all digits, not something like "10foo". */
  if (coptarg == 0 && argc > optind)
  {
    char *cp;
    for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
    ;
    if (cp[0] == '0')
      coptarg = argv[optind++];
  }

  if (!doit)
    break;

  if (coptarg)
  {
    int i = atoi (coptarg);
    char *cp;
/* Yes, I realize we're repeating this in some cases. */
for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
{
  if (i < 1 || cp[0] != '0')
  {
    error (NILF, 0,
      "the '-%c' option requires a positive integer argument"),
    cs->c);
    bad = 1;
  } else
  *(unsigned int *) cs->value_ptr = i;
}
else
  *(unsigned int *) cs->value_ptr
  = *(unsigned int *) cs->noarg_value;
break;

#ifndef NO_FLOAT
  case floating:
    if (coptarg == 0 && optind < argc
      && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))
      coptarg = argv[optind++];
    if (doit)
      *(double *) cs->value_ptr
      = (coptarg != 0 ? atof (coptarg)
      : *(double *) cs->noarg_value);

      break;
  #endif
  }
/* We've found the switch. Stop looking. */
break;
}
/* There are no more options according to getting getopt, but there may
be some arguments left. Since we have asked for non-option arguments
to be returned in order, this only happens when there is a "--"
argument to prevent later arguments from being options. */
while (optind < argc)
  handle_non_switch_argument (argv[optind++], env);
if (!env && (bad || print_usage_flag))
{
print_usage (bad);
die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
}
/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}
/* Decode switches from environment variable ENVAR (which is LEN chars long).
We do this by chopping the value into a vector of words, prepending a
dash to the first word if it lacks one, and passing the vector to
decode_switches. */
static void
decode_env_switches (const char *envar, unsigned int len)
{
char *varref = alloca (2 + len + 2);
char *value, *p, *buf;
int argc;
const char **argv;
/* Get the variable's value. */
varref[0] = '$';
varref[1] = '(';
memcpy (&varref[2], envar, len);
varref[2 + len] = ')';
varref[2 + len + 1] = '\0';
value = variable_expand (varref);
/* Skip whitespace, and check for an empty value. */
NEXT_TOKEN (value);
len = strlen (value);
if (len == 0)
return;
/* Allocate a vector that is definitely big enough. */
argv = alloca ((1 + len + 1) * sizeof (char *));
/* getopt will look at the arguments starting at ARGV[1].
Prepend a spacer word. */
argv[0] = 0;
argc = 1;
/* We need a buffer to copy the value into while we split it into words
and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '-';

Open Source Used In Callisto_PSIRT 1.3.2 1277


p = buf+1;
argv[argc] = p;
while (*value != '\0')
{
    if (*value == '\' && value[1] != '\0')
        ++value; /* Skip the backslash. */
    else if (ISBLANK (*value))
    {
        /* End of the word. */
        *p++ = '\0';
        argv[++argc] = p;
        do
            ++value;
        while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);
if (argv[1][0] != '-' && strchr (argv[1], '=')) == 0)
    /* The first word doesn't start with a dash and isn't a variable
       definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
   variable expansion in make itself. Write the result into OUT, returning
   the address of the next character to be written.
   Allocating space for OUT twice the length of IN is always sufficient. */

static char *
quote_for_env (char *out, const char *in)
{
    while (*in != '\0')
    {
        if (*in == '$')
            *out++ = '$';
        else if (ISBLANK (*in) || *in == '\')
            *out++ = '\';
    }
}
static struct variable *
define_makeflags (int all, int makefile)
{
    const char ref[] = "$(MAKEOVERRIDES)":
    const char posixref[] = "$(-*-command-variables-*)";
    const char evalref[] = "$(-*-eval-flags-*)";
    const struct command_switch *cs;
    char *flagstring;
    char *p;

    /* We will construct a linked list of 'struct flag's describing
     * all the flags which need to go in MAKEFLAGS.  Then, once we
     * know how many there are and their lengths, we can put them all
     * together in a string.  */

    struct flag
    {
        struct flag *next;
        const struct command_switch *cs;
        const char *arg;
    };
    struct flag *flags = 0;
    struct flag *last = 0;
    unsigned int flagslen = 0;

    #define ADD_FLAG(ARG, LEN) \
    do {
        struct flag *new = alloca (sizeof (struct flag));
        new->cs = cs;
        new->arg = (ARG);
        new->next = 0;
        if (! flags)
            flags = new;
        else
            last->next = new;
        last = new;
        if (new->arg == 0)
            /* Just a single flag letter: " -x" */
            flagslen += 3;
        else
            /* " -xfoo", plus space to escape "foo". */
    } while (1)
flagslen += 1 + 1 + (3 * (LEN));
if (!short_option (cs->c))
    /* This switch has no single-letter version, so we use the long. */
    flagslen += 2 + strlen (cs->long_name);
} while (0)

for (cs = switches; cs->c != '\0'; ++cs)
    if (cs->toenv && (!makefile || !cs->no_makefile))
        switch (cs->type)
            { case ignore: break;
              case flag: case flag_off:
                if (((int *) cs->value_ptr) == (cs->type == flag_off)
                    && (cs->default_value == 0
                        || *(int *) cs->value_ptr != *(int *) cs->default_value))
                    ADD_FLAG (0, 0);
                  break;
              case positive_int:
                if (all)
                    { if ((cs->default_value != 0
                        && (*(unsigned int *) cs->value_ptr
                            == *(unsigned int *) cs->default_value)))
                        break;
                    else if (cs->noarg_value != 0
                        && (*(unsigned int *) cs->value_ptr ==
                        *(unsigned int *) cs->noarg_value))
                        ADD_FLAG ("", 0); /* Optional value omitted; see below. */
                    else
                        { char *buf = alloca (30);
                            sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
                            ADD_FLAG (buf, strlen (buf));
                        }
                }
            break;
    }
#endif
    case floating:
    if (all)
        { if (cs->default_value != 0
            && (*(double *) cs->value_ptr
                == *(double *) cs->default_value))
            break;
        else
            { char *buf = alloca (30);
                snprintf (buf, "%f", *(double *) cs->value_ptr);
                ADD_FLAG (buf, strlen (buf));
            }
        }
    break;
break;
else if (cs->noarg_value != 0
  && *(double *) cs->value_ptr
  == *(double *) cs->noarg_value))
  ADD_FLAG ("", 0); /* Optional value omitted; see below. */
else
  {
    char *buf = alloca (100);
    sprintf (buf, "%g", *(double *) cs->value_ptr);
    ADD_FLAG (buf, strlen (buf));
  }
break;
#endif

case string:
  if (all)
  {
    p = *((char **)cs->value_ptr);
    if (p)
      ADD_FLAG (p, strlen (p));
  }
  break;

  case filename:
  case strlist:
    if (all)
    {
      struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
      if (sl != 0)
      {
        unsigned int i;
        for (i = 0; i < sl->idx; ++i)
          ADD_FLAG (sl->list[i], strlen (sl->list[i]));
      }
    }
    break;

default:
  abort (");
}

#undef  ADD_FLAG

/* Four more for the possible " -- ", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING. */
We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = ' ';  
    *p++ = '-';

    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = '-';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }

    /* An omitted optional argument has an ARG of ".". */
    if (flags->arg && flags->arg[0] != '\0')
    {
        if (!short_option (flags->cs->c))
        /* Long options require '='. */
            *p++ = '=';
        p = quote_for_env (p, flags->arg);
    }
    flags = flags->next;
}

/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
    flagstring[0] = '\0';
    p = flagstring;
}
/* Define MFLAGS before appending variable definitions. Omit an initial
empty dash. Since MFLAGS is not parsed for flags, there is no reason to
override any makefile redefinition. */

define_variable_cname("MFLAGS",
    flagstring + (flagstring[0] == '-' && flagstring[1] == ' ' ? 2 : 0),
    o_env, 1);

/* Write a reference to -*-eval-flags-*-, which contains all the --eval
flag options. */
if (eval_strings)
{
    *p++ = ' ';
    memcpy (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the
    command-line variable definitions. Separate the variables from the
    switches with a "--" arg. */

    strcpy (p, " -- ");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
        {memcpy (p, posixref, CSTRLEN (posixref));
            p += CSTRLEN (posixref);
        }
    else
        {memcpy (p, ref, CSTRLEN (ref));
            p += CSTRLEN (ref);
        }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
    ++flagstring;

/* This used to use o_env, but that lost when a makefile defined MAKEFLAGS.
Makefiles set MAKEFLAGS to add switches, but we still want to redefine
its value with the full set of switches. Then we used o_file, but that
lost when users added -e, causing a previous MAKEFLAGS env. var. to take
precedence over the new one. Of course, an override or command
/* Print a bunch of information about this and that. */

const char *precede = print_data_base_flag ? "# " : "";

if (printed_version)
  /* Do it only once. */
  return;

printf ("%sGNU Make %s\n", precede, version_string);

if (!remote_description || *remote_description == '\0')
  printf (_("%sBuilt for %s\n"), precede, make_host);
else
  printf (_("%sBuilt for %s (%s)\n"),
          precede, make_host, remote_description);

/* Print this untranslated. The coding standards recommend translating the
   (C) to the copyright symbol, but this string is going to change every
   year, and none of the rest of it should be translated (including the
   word "Copyright"), so it hardly seems worth it. */

printf (_("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n", precede);

printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n%sThis is free software: you are free to change and redistribute it.\n%sThere is NO WARRANTY, to the extent permitted by law.\n"),
        precede, precede, precede);

printed_version = 1;

/* Flush stdout so the user doesn't have to wait to see the
   version information while make thinks about things. */
fflush (stdout);
}

/* Print version information. */

static void
print_version (void)
{
  static int printed_version = 0;

  const char *precede = print_data_base_flag ? "# " : "";

  if (printed_version)
    /* Do it only once. */
    return;

  printf ("%sGNU Make %s\n", precede, version_string);

  if (!remote_description || *remote_description == '\0')
    printf (_("%sBuilt for %s\n"), precede, make_host);
  else
    printf (_("%sBuilt for %s (%s)\n"),
            precede, make_host, remote_description);

  /* Print this untranslated. The coding standards recommend translating the
     (C) to the copyright symbol, but this string is going to change every
     year, and none of the rest of it should be translated (including the
     word "Copyright"), so it hardly seems worth it. */

  printf (_("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n", precede);

  printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n%sThis is free software: you are free to change and redistribute it.\n%sThere is NO WARRANTY, to the extent permitted by law.\n"),
          precede, precede, precede);

  printed_version = 1;

  /* Flush stdout so the user doesn't have to wait to see the
     version information while make thinks about things. */
  fflush (stdout);
}

/* Print a bunch of information about this and that. */
static void
print_data_base (void)
{
    time_t when = time ((time_t *) 0);

    print_version ();

    printf ("%# Make data base, printed on %s
"), ctime (&when));

    print_variable_data_base ();
    print_dir_data_base ();
    print_rule_data_base ();
    print_file_data_base ();
    print_vpath_data_base ();
    strcache_print_stats ("#");

    when = time ((time_t *) 0);
    printf ("%# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
    /* Sanity: have we written all our jobserver tokens back? If our
     * exit status is 2 that means some kind of syntax error; we might not
     * have written all our tokens so do that now. If tokens are left
     * after any other error code, that's bad. */

    if (jobserver_enabled() & jobserver_tokens)
    {
        if (status != 2)
            ON (error, NILF,
                "INTERNAL: Exiting with %u jobserver tokens (should be 0)!",
                jobserver_tokens);
        else
            /* Don't write back the "free" token */
            while (--jobserver_tokens)
                jobserver_release (0);
    }

    /* Sanity: If we're the master, were all the tokens written back? */

    if (master_job_slots)
    {
        /* We didn't write one for ourself, so start at 1. */
        unsigned int tokens = 1 + jobserver_acquire_all ();

if (tokens != master_job_slots)
    ONN (error, NILF,
        "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
        tokens, master_job_slots);

    reset_jobserver ();
}
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version ();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup ();

        /* Remove the intermediate files. */
        remove_intermediates (0);

        if (print_data_base_flag)
            print_data_base ();

        if (verify_flag)
            verify_file_data_base ();

        clean_jobserver (status);

        if (output_context)
        {
            /* die() might be called in a recipe output context due to an
            $(error ...) function. */
output_close (output_context);

if (output_context != &make_sync)
    output_close (&make_sync);

    OUTPUT_UNSET ();
}

output_close (NULL);

/* Try to move back to the original directory. This is essential on
MS-DOS (where there is really only one process), and on Unix it
puts core files in the original directory instead of the -C
directory. Must wait until after remove_intermediates(), or unlinks
of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
   int _x UNUSED;
   _x = chdir (directory_before_chdir);
}

exit (status);

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 *
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* Date:    April 3, 2006
* Version: 0.1
*
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```

/* GNU m4 -- A simple macro processor


   */
This file is part of GNU M4.

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/*

#include "m4.h"

#include <getopt.h>
#include <limits.h>
#include <signal.h>

#include "c-stack.h"
#include "ignore-value.h"
#include "progname.h"
#include "version-etc.h"

#ifdef DEBUG_STKOVF
#include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;

/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all builtin functions by `m4_'. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4 words. */
const char *user_word_regexp = "";
#endif

/* Global catchall for any errors that should affect final error status, but
where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, \l', or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----------------------.
| Wrapper around error. |
`-----------------------*/

void m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_line : NULL,
                   current_line, format, args);
    if (fatal_warnings && ! retcode)
```c
void m4_error_at_line (int status, int errnum, const char *file, int line,
    const char *format, ...) {
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

#ifndef SIGBUS
#define SIGBUS SIGILL
#endif
#ifndef NSIG
#ifndef MAX
#define MAX(a,b) ((a) < (b) ? (b) : (a))
#endif
#define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, \n    MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in
the signal handler, since gettext and strsignal are not
async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This
must be async-signal safe, since it is executed as a signal
handler. If SIGNO is zero, this represents a stack overflow; in
that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE fault_handler (int signo) {
    if (signo)
        /* POSIX states that reading static memory is, in general, not
...
async-safe. However, the static variables that we read are never modified once this handler is installed, so this particular usage is safe. And it seems an oversight that POSIX claims strlen is not async-safe. Ignore write failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
WRITE (STDERR_FILENO, program_name, strlen (program_name));
WRITE (STDERR_FILENO, ": ", 2);
WRITE (STDERR_FILENO, program_error_message, 
expiration (program_error_message));
if (signal_message[signo])
{
  WRITE (STDERR_FILENO, ": ", 2);
  WRITE (STDERR_FILENO, signal_message[signo], 
expiration (signal_message[signo]));
}
WRITE (STDERR_FILENO, "\n", 1);
#undef WRITE
_exit (EXIT_INTERNAL_ERROR);
}

/*---------------------------------------------.
| Print a usage message and exit with STATUS.  
`---------------------------------------------*/
static void
usage (int status)
{
if (status != EXIT_SUCCESS)
  xprintf (stderr, "Try `%s --help' for more information.\n", program_name);
else
{
xprintf ("Usage: %s [OPTION]... [FILE]...
", program_name);
  puts ("
Process macros in FILEs. If no FILE or if FILE is `-', standard input
is read.\n",
"], stdout);
  puts ("
\nMandatory or optional arguments to long options are mandatory or optional
for short options too.\n"
\nOperation modes:\n  --help         display this help and exit
  --version      output version information and exit
"], stdout);

__________________________________________________________
| Print a usage message and exit with STATUS.  |  
`---------------------------------------------*/

xprintf ("\n-E, --fatal-warnings once: warnings become errors, twice: stop\n\nexecution at first error\n\n-i, --interactive unbuffer output, ignore interrupts\n\n-P, --prefix-builtins force a `m4_` prefix to all builtins\n\n-Q, --quiet, --silent suppress some warnings for builtins\n\n--warn-macro-sequence[=REGEXP]\n\nwarn if macro definition matches REGEXP,\n\ndefault %s\n\n", DEFAULT_MACRO_SEQUENCE);
#endif

/*, stdout); */
#endif


Preprocessor features:\n\n-D, --define=NAME[=VALUE] define NAME as having VALUE, or empty\n\n-I, --include=DIRECTORY append DIRECTORY to include path\n\n-s, --synclines generate `#line NUM "$FILE"' lines\n\n-U, --undefine=NAME undefine NAME\n\n\n", stdout); }

.puts ("#");
xprintf (_("\n\nLimits control:\n\n-g, --gnu override -G to re-enable GNU extensions\n\n-G, --traditional suppress all GNU extensions\n\n-H, --hashsize=PRIME set symbol lookup hash table size [509]\n\n-L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited [%d]\n\n"), nesting_limit);

.puts ("#");

.Fputs ("\n\nFrozen state files:\n\n-F, --freeze-state=FILE produce a frozen state on FILE at end\n\n-R, --reload-state=FILE reload a frozen state from FILE at start\n\n", stdout);

.Fputs ("\n\n\nDebugging:\n\n-d, --debug[=FLAGS] set debug level (no FLAGS implies `aeq')\n\n--debugfile[=FILE] redirect debug and trace output to FILE\n\n(default stderr, discard if empty string)\n\n-l, --arglength=NUM restrict macro tracing size\n\n-t, --trace=NAME trace NAME when it is defined\n\n", stdout);

.Fputs ("\n\n"
FLAGS is any of:

a  show actual arguments
b  show before collect, after collect and after call

f  say current input file name
i  show changes in input files
l  show current input line number

p  show results of path searches
q  quote values as necessary, with a or e flag

q  trace for all macro calls, not only traceon'ed
x  add a unique macro call id, useful with c flag

V  shorthand for all of the above flags

", stdout);

fputs ("\n
If defined, the environment variable `M4PATH' is a colon-separated list of directories included after any specified by `-I'.
", stdout);

fputs ("\n
Exit status is 0 for success, 1 for failure, 63 for frozen file version mismatch, or whatever value was passed to the m4exit macro.\n", stdout);

emit_bug_reporting_address ();
}
exit (status);

/*--------------------------------------.
| Decode options and launch execution. |
`--------------------------------------*/

/* For long options that have no equivalent short option, use a
   non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
  DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */
  DIVERSIONS_OPTION, /* not quite -N, because of message */
  WARN_MACRO_SEQUENCE_OPTION, /* no short opt */
  HELP_OPTION, /* no short opt */
  VERSION_OPTION /* no short opt */
};

static const struct option long_options[] =
{
  {"arglength", required_argument, NULL, 'l'},
  {"debug", optional_argument, NULL, 'd'},
...
{"define", required_argument, NULL, 'D'},
{"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
{"fatal-warnings", no_argument, NULL, 'E'},
{"freeze-state", required_argument, NULL, 'F'},
{"gnu", no_argument, NULL, 'g'},
{"hashsize", required_argument, NULL, 'H'},
{"include", required_argument, NULL, 'I'},
{"interactive", no_argument, NULL, 'i'},
{"nesting-limit", required_argument, NULL, 'L'},
{"prefix-builtins", no_argument, NULL, 'P'},
{"quiet", no_argument, NULL, 'Q'},
{"reload-state", required_argument, NULL, 'R'},
{"silent", no_argument, NULL, 'Q'},
{"synclines", no_argument, NULL, 's'},
{"trace", required_argument, NULL, 't'},
{"traditional", no_argument, NULL, 'G'},
{"undefine", required_argument, NULL, 'U'},
#ifdef ENABLE_CHANGEWORD
{"word-regexp", required_argument, NULL, 'W'},
#endif
{"debugfile", optional_argument, NULL, DEBUGFILE_OPTION},
{"diversions", required_argument, NULL, DIVERSIONS_OPTION},
{"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},
{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},
{ NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was stdin. */
static void
process_file (const char *name)
{
if (STREQ (name, "-"))
{
/* If stdin is a terminal, we want to allow 'm4 - file -'
   to read input from stdin twice, like GNU cat. Besides,
   there is no point closing stdin before wrapped text, to
   minimize bugs in syscmd called from wrapped text. */
push_file (stdin, "stdin", false);
}
else
{
char *full_name;
FILE *fp = m4_path_search (name, &full_name);

...
if (fp == NULL)
{
    error (0, errno, _("cannot open `\%s'"), name);
    /* Set the status to EXIT_FAILURE, even though we
     * continue to process files after a missing file. */
    retcode = EXIT_FAILURE;
    return;
}
push_file (fp, full_name, true);
free (full_name);
}
expand_input ();

/* POSIX requires only -D, -U, and -s; and says that the first two
 * must be recognized when interspersed with file names. Traditional
 * behavior also handles -s between files. Starting OPTSTRING with
 * `.' forces getopt_long to hand back file names as arguments to opt
 * \\1", rather than reordering the command line. */
#endif ENABLE_CHANGEWORD
#else
#endif

int
main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head;  /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;             /* option character */

    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = "";

    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;
atexit (close_stdin);

    include_init ();
    debug_init ();
/ * Stack overflow and program error handling. Ignore failure to install a handler, since this is merely for improved output on crash, and we should never crash :). We install SIGBUS and SIGSEGV handlers prior to using the c-stack module; depending on the platform, c-stack will then override none, SIGSEGV, or both handlers. */

program_error_message = xasprintf ("("internal error detected; please report this bug to <\%s>"), PACKAGE_BUGREPORT);

signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));

signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));

signal_message[SIGILL] = xstrdup (strsignal (SIGILL));

signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));

if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)
    signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));

sigemptyset (&act.sa_mask);

/* One-shot - if we fault while handling a fault, we want to revert to default signal behavior. */

act.sa_flags = SA_NODEFER | SA_RESETHAND;
act.sa_handler = fault_handler;

sigaction (SIGSEGV, &act, NULL);

sigaction (SIGABRT, &act, NULL);

sigaction (SIGILL, &act, NULL);

sigaction (SIGFPE, &act, NULL);

sigaction (SIGBUS, &act, NULL);

if (c_stack_action (fault_handler) == 0)
    nesting_limit = 0;

#endif /* DEBUG_STKOVF */

/* Make it easier to test our fault handlers. Exporting M4_CRASH=0 attempts a SIGSEGV, exporting it as 1 attempts an assertion failure with a fallback to abort. */

{ char *crash = getenv ("M4_CRASH");
  if (crash)
    {
      if (!strtol (crash, NULL, 10))
        ***(int *) 8;
      assert (false);
      abort ();
    }
}
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */

head = tail = NULL;
while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
    long_options, NULL)) != -1)

switch (optchar)
{
default:
    usage (EXIT_FAILURE);

    case 'B':
    case 'S':
    case 'T':
        /* Compatibility junk: options that other implementations
         * support, but which we ignore as no-ops and don't list in
         * --help. */
        error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),
            optchar);
        break;

    case 'N':
    case DIVERSIONS_OPTION:
        /* -N became an obsolete no-op in 1.4.x. */
        error (0, 0, _("warning: `m4 %s' is deprecated"),
            optchar == 'N' ? "-N" : "--diversions");
        break;

    case 'D':
    case 'U':
    case 's':
    case 't':
    case '\1':
    case DEBUGFILE_OPTION:
        /* Arguments that cannot be handled until later are accumulated. */

        defn = (macro_definition *) xmalloc (sizeof (macro_definition));
        defn->code = optchar;
        defn->arg = optarg;
        defn->next = NULL;

        if (head == NULL)
            head = defn;
        else
            tail->next = defn;
        tail = defn;

        break;

    case 'E':
        if (! fatal_warnings)
            fatal_warnings = true;
else
    warning_status = EXIT_FAILURE;
break;

case 'F':
    frozen_file_to_write = optarg;
break;

case 'G':
    no_gnu_extensions = 1;
break;

case 'H':
    hash_table_size = strtol (optarg, NULL, 10);
    if (hash_table_size == 0)
        hash_table_size = HASHMAX;
    break;

case 'I':
    add_include_directory (optarg);
break;

case 'L':
    nesting_limit = strtol (optarg, NULL, 10);
break;

case 'P':
    prefix_all_builtins = 1;
break;

case 'Q':
    suppress_warnings = 1;
break;

case 'R':
    frozen_file_to_read = optarg;
break;

#ifdef ENABLE_CHANGEWORD
    case 'W':
        user_word_regexp = optarg;
        break;
#endif

case 'd':
    debug_level = debug_decode (optarg);
    if (debug_level < 0)
        {

error (0, 0, "bad debug flags: \'%s\'", optarg);
design_level = 0;
}
break;

case 'e':
    error (0, 0, "warning: \`m4 -e' is deprecated, use `-i' instead");
    /* fall through */
case 'i':
    interactive = true;
    break;

case 'g':
    no_gnu_extensions = 0;
    break;

case 'l':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
    break;

case 'o':
    /* -of/--error-output are deprecated synonyms of --debugfile,  
       but don't issue a deprecation warning until autoconf 2.61  
       or later is more widely established, as such a warning  
       would interfere with all earlier versions of autoconf. */
    /* Don't call debug_set_output here, as it has side effects. */
    debugfile = optarg;
    break;

case WARN_MACRO_SEQUENCE_OPTION:
    /* Don't call set_macro_sequence here, as it can exit.  
       --warn-macro-sequence sets optarg to NULL (which uses the 
       default regexp); --warn-macro-sequence= sets optarg to ""  
       (which disables these warnings). */
    macro_sequence = optarg;
    break;

case VERSION_OPTION:
    version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
    exit (EXIT_SUCCESS);
    break;

case HELP_OPTION:
    usage (EXIT_SUCCESS);
    break;
}
defines = head;

/** Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
    M4ERROR ((warning_status, errno, "cannot set debug file \"%s\", debugfile));

input_init ();
output_init ();
symtab_init ();
set_macro_sequence (macro_sequence);
include_env_init ();

if (frozen_file_to_read)
    reload_frozen_state (frozen_file_to_read);
else
    builtin_init();

/** Interactive mode means unbuffered output, and interrupts ignored. */
if (interactive)
{
    signal (SIGINT, SIG_IGN);
    setbuf (stdout, (char *) NULL);
}

/** Handle deferred command line macro definitions. Must come after
initialization of the symbol table. */
while (defines != NULL)
{
    macro_definition *next;
symbol *sym;

    switch (defines->code)
    {
    case 'D':
    {
        /* defines->arg is read-only, so we need a copy. */
        char *macro_name = xstrdup (defines->arg);
        char *macro_value = strchr (macro_name, '=');
        if (macro_value)
            *macro_value++ = '\0';
        define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
        free (macro_name);
    }
    break;
case 'U':
    lookup_symbol (defines->arg, SYMBOL_DELETE);
    break;

case 't':
    sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
    SYMBOL_TRACED (sym) = true;
    break;

case 's':
    sync_output = 1;
    break;

case '
':
    seen_file = true;
    process_file (defines->arg);
    break;

case DEBUGFILE_OPTION:
    if (!debug_set_output (defines->arg))
        M4ERROR ((warning_status, errno, "cannot set debug file `\%s',
                debugfile ? debugfile : _("stderr")));
    break;

default:
    M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
    abort ();
}

next = defines->next;
free (defines);
defines = next;

/* Handle remaining input files. Each file is pushed on the input,
and the input read. Wrapup text is handled separately later. */

if (optind == argc && !seen_file)
    process_file ("-");
else
    for (; optind < argc; optind++)
        process_file (argv[optind]);

/* Now handle wrapup text. */
while (pop_wrapup ())
    expand_input ();


```
/* Change debug stream back to stderr, to force flushing the debug
stream and detect any errors it might have encountered. The
three standard streams are closed by close_stdin. */
default_set_output(NULL);

if (frozen_file_to_write)
    produce_frozen_state(frozen_file_to_write);
else
{
    make_diversion(0);
    undivert_all();
}
output_exit();
free_macro_sequence();
exit(retcode);
```

**1.130 lz4 1.8.2 r0**

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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.

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.

e) 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 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
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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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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.

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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.

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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
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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
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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.

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.)

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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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1.136 flexdateutils 1.0.8.0

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1.138 python-py 1.6.0 r0

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1.139 python-mimeparse 0.1.4

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1.140 i2c-tools 4.1 r0

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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
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Sockets
-------

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

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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
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- Arguments more compliant with Python standard

XML Remote Procedure Calls
---------------------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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djb (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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The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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 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)

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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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Gadi Oxman, August 1995

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1.161 python-pycrypto 2.6.1 r0
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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 (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.

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.

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk [15.0.3664/NT8923.00.54dca388]) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
#### BEGIN PGP SIGNED MESSAGE####

#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:” header, the sender
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLXlDYGVnbVwth+BAQEcuuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKJp XR
+q0E7eE8VtnvijUcTAR9o27yzvzOPxdFT864MQA7OTSBbPK39aGAgA4fgAgvYH9t
UNjJkv8QLzqaq2flz/HNyrynqFnl0uqwpOrQGbZ8Y+sGpVh1gKqy1Ju45L+doq
sbxzCOpigv2z2dNdR/25nFmDWQXv8dSeonwHPpQDf8/LVA/gHtDmteQl0hJQ6o
XYhY+HbRjsD741/GSpOt9Iln5ln0ugshFoLIndnN5AvWf4aPyh5KCN7ho+w/BC0v/
W/pq5SIpKwmbhIPHoOltTkNc0qKLAH1XqMGJNhO8AkrYZ0yJksb0HsA==
=3olX

-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk
(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
    Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
    Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
    by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
    for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
    Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
    for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
    DKIM-Signature: v=1; a=rsa-sha1; c=nofws;
    d=google.com; s=gamma;
    h=mime-version:in-reply-to:references:from:date:message-id:subject:to
    b=gyTqkRhIHadFKIZCBWsRbnNVNDq1PWlJbyC0EvxPskaoHr3HAR96MWQNBWl5Ac
Vn55qI1qTdom4e9zIUE6MwZo9kqi/Qw0L/SLib0DIQecNqo/eHYqPmuVswitaYwNAyMJ
Y9++76rPGzqYdALSfvsxwv7Q3/bEmjVTTr0tQE=
DomainKey-Signature: a=rsa-sha256; c=relaxed/relaxed;
    d=gmail.com; s=gamma;
    h=domainkey-signature:mime-version:received:in-reply-to:references
    :from:date:message-id:subject:to:content-type
    :content-transfer-encoding:
    bh=A0RHBi0TnrihKS5qOHJ3WYbkZ+b0cPeuoKAvpApWcc=;
    b=gyTqkRhIHadFKIZCBWsRbnNVNDq1PWlJbyC0EvxPskaoHr3HAR96MWQNBWl5Ac
Vn55qI1qTdom4e9zIUE6MwZo9kqi/Qw0L/SLib0DIQecNqo/eHYqPmuVswitaYwNAyMJ
Y9++76rPGzqYdALSfvsxwv7Q3/bEmjVTTr0tQE=
DKIM-Signature: v=1; a=rsa-sha1; c=nofws;
    d=gmail.com; s=gamma;
    h=mime-version:in-reply-to:references:from:date:message-id:subject:to
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
>
> That's great!
>
> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> >
> =C2=A0The contents of this file are dedicated to the public domain. =C2=A0To
> the
> extent that dedication to the public domain is not available, every=
> one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> =C2=A0to exercise all rights associated with the contents of this file fo=
> r
> any purpose whatsoever. =C2=A0No rights are reserved.
> 

Yes, that’s fine. Good luck with the new release!

-P
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>>> working on a new release at http://www.pycrypto.org/.
>>
> >That's great!
> 
>> I understand that you have made contributions to PyCrypto, under nickname
>> "z3p" and/or other names. May I, on your behalf, dedicate to the public
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

---
Dwayne C. Litzenberger <dlitz@dlitz.net>
  key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Perfect! Thanks for the quick response!
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600 (CST)
Delivered-To: m-dlitz-dlitz@dlitz.net
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Hash: SHA1

Open Source Used In Callisto_PSIRT 1.3.2 1617
On November 23, 2008, you wrote:

> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
>
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ceG+JdZwNVpJRfsa6rhY6+MHLDHJ6agk
evkJnSIQAcVHIzVr1VeRs1XgyDUcMazZjU4SOv7MqkhsKAlJEt7PaD9VSYg3ra5
gElw2IDQDoOy5GExXMr74qmr1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wtOrH7
SK4w9VJrY=3D
=DQduY
-----END PGP SIGNATURE-----
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without

J/Mn/I+i6ekQ3juh8IPHLAduoOXM9Rtguas/yR+Doaq0xOPkoBx+/5+t11LjtbcZ
wrPEa90ui9s=
=2SY9

-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenerberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461

--YiEDa0DAkWCtVeE4
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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or implied. Use at your own risk or not at all.

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not have to make source available or contribute your changes back
(though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a=20
clearer licensing regime. I'm asking as many copyright holders as I can=20
find, starting with you, if I can release PyCrypto under something clearer=20
and more standard. Below, I have quoted a public domain dedication that=20
was recommended in _Intellectual Property and Open Source: A Practical_=20

May I, on your behalf, dedicate to the public domain your considerable=20
contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--=20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline
From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
  (envelope-sender <amk@amk.ca>)
  by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <200811231231234.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent: Mutt/1.5.13 (2006-08-11)
Status: RO
Content-Length: 537
Lines: 15
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's
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dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
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or implied. Use at your own risk or not at all.
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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response. I don't really check this email address all that often, please direct any further correspondence to jeethurao@gmail.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk (www.amk.ca)

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Regards,
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IRC). I'm fine with the public domain license for PyCrypto. I'd be fine with the public domain license for PyCrypto. Jeethu Rao

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Regards,

- Dwayne

---

Dwayne C. Litzenberger

---

Jeethu Rao
In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all
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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtpe6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
  (envelope-sender <joris@bontje.nl>)
  by 10.170.1.96 (qmail-ldap-1.03) with SMTP
  for < >; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
>
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Regards,

- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
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Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
   by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600 (CST)
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,

Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification

Open Source Used In Callisto_PSIRT 1.3.2 1637
Hi Mark,

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> >
>>
> Regards,
> - Dwayne
>
> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key   - 19E1
> 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
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> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
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---BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

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Hash: SHA1

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have already contacted A. M. Kuchling, and he has approved the
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```
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```

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robey

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Version: GnuPG v1.4.8 (Darwin)
iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCIQmYYuVODvIllyLg0hgCI9LAbQ
SH8AoLJgaq1li7/ZYDc+/Cd8VO0xLbr
=Mv6g
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1.163 libedit 20180525-3.1 r0

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1.164 gnutls 3.6.4 r0
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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
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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.

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.

e) 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 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
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:

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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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.

1.170 qemu 3.0.0 r0
1.170.1 Available under license :

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 */
#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


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* *

#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

/* $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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/*      $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 /* Device not configured */
#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_EPFNSUPPORT 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_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_EPROCCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGETESTAMP 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPCPC 72 /* RPC struct is bad */
#define TARGET_ERPCCMISMATCH 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_EETYPE 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_EOVERRIDE 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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 */
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 },
{ TARGET_FREEBSD_NR_mmap, "mmap", 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_prof, "prof", 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 },

Open Source Used In Callisto_PSIRT 1.3.2 1765

{ 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_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", 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_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setssockopt, "setssockopt", 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_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_sigtelnet, "sigtelnet", "%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 },
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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
endif
export TOP
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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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
endif
export TOP
include $(TOP)/make.rules
ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I -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) $@

Open Source Used In Callisto_PSIRT 1.3.2 1776
clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
/*       $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_recvmsg     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_acct 50
#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_systm 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 62
#define TARGET_OPENBSD_NR_sbrk 63
#define TARGET_OPENBSD_NR_munmap 64
#define TARGET_OPENBSD_NR_mprotect 65
#define TARGET_OPENBSD_NR_madvise 66
#define TARGET_OPENBSD_NR_mincore 67
#define TARGET_OPENBSD_NR_getgroups 68
#define TARGET_OPENBSD_NR_setgroups 69
#define TARGET_OPENBSD_NR_getpgrp 70
#define TARGET_OPENBSD_NR_setpgid 71
#define TARGET_OPENBSD_NR_getitimer 72
#define TARGET_OPENBSD_NR_setitimer 73
#define TARGET_OPENBSD_NR_dup2 74
#define TARGET_OPENBSD_NR_fcntl 75
#define TARGET_OPENBSD_NR_select 76
#define TARGET_OPENBSD_NR_fsync 77
#define TARGET_OPENBSD_NR_setpriority 78
#define TARGET_OPENBSD_NR_socket 79
#define TARGET_OPENBSD_NR_connect 80
#define TARGET_OPENBSD_NR_getpriority 81
#define TARGET_OPENBSD_NR_sigreturn 82
#define TARGET_OPENBSD_NR_bind 83
#define TARGET_OPENBSD_NR_setsockopt 84
#define TARGET_OPENBSD_NR_listen 85
#define TARGET_OPENBSD_NR_sigsuspend 86
#define TARGET_OPENBSD_NR_gettimeofday 87

#define TARGET_OPENBSD_NR_getusage 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_pwm write 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_sege clean 186
#define TARGET_OPENBSD_NR_lfs_sege wait 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_xfspioctl 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_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 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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/* */
/* */
#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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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.)

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Autoconf</td>
<td>llvm/autoconf</td>
</tr>
<tr>
<td></td>
<td>llvm/projects/ModuleMaker/autoconf</td>
</tr>
<tr>
<td></td>
<td>llvm/projects/sample/autoconf</td>
</tr>
<tr>
<td>Google Test</td>
<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
</tr>
<tr>
<td>ARM contributions</td>
<td>llvm/lib/Target/ARM/LICENSE.TXT</td>
</tr>
<tr>
<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/lvlm/Support/MD5.h</td>
</tr>
</tbody>
</table>

/* $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_getuid     24
#define TARGET_NETBSD_NR_geteuid    25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     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_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_osethostname      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_getususage  123
#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_osethostid        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_ogetdirentries    156
#define TARGET_NETBSD_NR_compat_20_statfs    157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_comp_12_stat12    159
#define TARGET_NETBSD_NR_comp_12_fstat12   160
#define TARGET_NETBSD_NR_compat_12_lstat12   161
#define TARGET_NETBSD_NR_pathconf    162
#define TARGET_NETBSD_NR_fpathconf   163
#define TARGET_NETBSD_NR_sysarch     165
#define TARGET_NETBSD_NRCompat_10_osemsys   166
#define TARGET_NETBSD_NRCompat_10_omsgsys   167
#define TARGET_NETBSD_NRCompat_10_oshmsys   168
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_12_ntp_gettime       175
#define TARGET_NETBSD_NR_compat_30_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_getdirentries 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_shmctl 230
#define TARGET_NETBSD_NR_shmat 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_lwp_create    308
#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_fsync_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 391
#define TARGET_NETBSD_NR___ntp_gettime30 392
#define TARGET_NETBSD_NR___socket30 393
#define TARGET_NETBSD_NR___getfh30 394
#define TARGET_NETBSD_NR___fhopen40 395
#define TARGET_NETBSD_NR___fhstatvfs140 396
#define TARGET_NETBSD_NR___fhstat40 397
#define TARGET_NETBSD_NR_aio_cancel 398
#define TARGET_NETBSD_NR_aio_error 399
#define TARGET_NETBSD_NR_aio_fsync 400
#define TARGET_NETBSD_NR_aio_read 401
#define TARGET_NETBSD_NR_aio_return 402
#define TARGET_NETBSD_NR_aio_suspend 403
#define TARGET_NETBSD_NR_aio_write 404
#define TARGET_NETBSD_NR_lio_listio 405
#define TARGET_NETBSD_NR___mount50 406
#define TARGET_NETBSD_NR_mremap 407
#define TARGET_NETBSD_NR_pset_create 408
#define TARGET_NETBSD_NR_pset_destroy 409
#define TARGET_NETBSD_NR_pset_assign 410
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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_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_setsockopt 123
/* 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_msgsys 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__ftruncate 200
#define TARGET_FREEBSD_NR_freebsd6___syscall 201
#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_freebsd6_futimes 206
#define TARGET_FREEBSD_NR_freebsd6_getpgid 207
#define TARGET_FREEBSD_NR_freebsd6_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_freebsd7___semget 221
#define TARGET_FREEBSD_NR_freebsd7___semop 222
#define TARGET_FREEBSD_NR_freebsd7___msgctl 224
#define TARGET_FREEBSD_NR_freebsd7___msgget 225
#define TARGET_FREEBSD_NR_freebsd7___msgsnd 226
#define TARGET_FREEBSD_NR_freebsd7___msgrcv 227
#define TARGET_FREEBSD_NR_freebsd7___shmat 228
#define TARGET_FREEBSD_NR_freebsd7___shmdt 229
#define TARGET_FREEBSD_NR_freebsd7___shmctl 230
#define TARGET_FREEBSD_NR_freebsd7___shmat 231
#define TARGET_FREEBSD_NR_freebsd7___clock_gettime 232
#define TARGET_FREEBSD_NR_freebsd7___clock_settime 233
#define TARGET_FREEBSD_NR_freebsd7___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 241
#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_llo_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_modfnext 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_extattr delete_file 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 364
#define TARGET_FREEBSD_NR_extattr_get_fd 365
#define TARGET_FREEBSD_NR_extattr_delete_fd 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR_eaccess 368
#define TARGET_FREEBSD_NR_afs3 syscall 369
#define TARGET_FREEBSD_NR_nmount 370
#define TARGET_FREEBSD_NR___mac get proc 371
#define TARGET_FREEBSD_NR___mac_set proc 372
#define TARGET_FREEBSD_NR___mac get fd 373
#define TARGET_FREEBSD_NR___mac_set fd 374
#define TARGET_FREEBSD_NR___setuid 375
#define TARGET_FREEBSD_NR___setgid 376
#define TARGET_FREEBSD_NR_fhstatfs 377
#define TARGET_FREEBSD_NR_fhstatfs 378
#define TARGET_FREEBSD_NR_fhstatfs 379
#define TARGET_FREEBSD_NR_fhstatfs 380
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#define TARGET_FREEBSD_NR_fhstatfs 396
#define TARGET_FREEBSD_NR_fhstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_fhstatfs 399
#define TARGET_FREEBSD_NR_fhstatfs 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_getauid 447
#define TARGET_FREEBSD_NR_setauid 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_abort2 462
#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_setaffinity 487
#define TARGET_FREEBSD_NR_cpuset_getaffinity 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_mknodat 497
#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

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References

1. http://www.gnu.org/licenses/license-list.html
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This dtc package contains two pieces of software: dtc itself, and libfdt which comprises the files in the libfdt/ subdirectory. These two pieces of software, although closely related, are quite distinct. dtc does not incorporate or rely on libfdt for its operation, nor vice versa. It is important that these two pieces of software have different license conditions.

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I made the decision to license libfdt in this way because I want to encourage widespread and correct usage of flattened device trees, including by proprietary or otherwise GPL-compatible firmware or
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This does mean that libfdt code could be "stolen" - say, included in a proprietary firmware and extended without contributing those extensions back to the libfdt mainline. While I hope that doesn't happen, I believe the goal of allowing libfdt to be widely used is more important than avoiding that. libfdt is quite small, and hardly rocket science; so the incentive for such impolite behaviour is small, and the inconvenience caused therby is not dire.

Licenses such as the LGPL which would allow code to be used in non-GPL software, but also require contributions to be returned were considered. However, libfdt is designed to be used in firmwares and other environments with unusual technical constraints. It's difficult to anticipate all possible changes which might be needed to meld libfdt into such environments and so difficult to suitably word a license that puts the boundary between what is and isn't permitted in the intended place. Again, I judged encouraging widespread use of libfdt by keeping the license terms simple and familiar to be the more important goal.

**IMPORTANT** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

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

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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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-- Wolfgang Denk
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
+++ debug.c 15 Jan 2008 13:49:25 -0000
@@ -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();
+        }
        x86emu_dump_regs();
    }
    if (DEBUG_DECODE() && !DEBUG_DECODE_NOPRINT()) {
if (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
+++ ops2.c 20 Mar 2008 15:48:34 -0000
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
     DECODE_PRINTF2("%04x
", 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();
+}
+/XML
+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
");
    M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
    break;

TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}

/** 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
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    push_word(imm);
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
    } else {
+        push_word(imm);

/* 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
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    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;
+ targeting: trace and step
+    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_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + 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.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) {
            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.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.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 {
    @ @ -2598,16 +2612,21 @ @
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
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--) {
  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 -= 1;
    +if (M.x86.mode & SYSMODE_32BIT_REP)
    +  M.x86.R_ECX -= 1;
    +  else
    +  M.x86.R_CX -= 1;
    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--) {
  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();

inc = 1;

if (M.x86.mode & SYSMODE_PREFIX_REPE) {
  /* REPE */
  /* move them until CX is ZERO. */
  /* 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);
    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_PREFIXREPNE) {
  /* REPNE */
  /* move them until CX is ZERO. */
  /* 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);
    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;
  }
}
if (M.x86.intr & INTR_HALTED)
    break;

M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {

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);
      }
      - 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);
      }
      - M.x86.R_CX -= 1;
      + if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    }
    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("RETu");
    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("RETu");
-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\n");
    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();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_CS = pop_word();
    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)
+  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"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.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 @@
# 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())
-\        printf("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
+\        RETURN_TRACE(u,v,w,x,s)\  
+\        printf("%04x:%04x: %s
",u,v,n);
+\        printf("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+\        JMP_TRACE(u,v,w,x,s)\  
+\        printf("%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
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 +0000
@@ -231,6 +231,9 @@
# define SYSMODE_PREFIX_REPNE    0x00000100
# define SYSMODE_PREFIX_DATA     0x00000200
# define SYSMODE_PREFIX_ADDR     0x00000400

Open Source Used In Callisto_PSIRT 1.3.2 1904
/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_SS | \n      SYSMODE_PREFIX_DATA | \n      SYSMODE_PREFIX_ADDR)
-      SYSMODE_32BIT_REP)
+      SYSMODE_PREFIX_ADDR    | \n+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2
@@ -274,9 +278,9 @@
*/
    mode;
    volatile int         intr; /* mask of pending interrupts */
-int      debug;
+ volatile int         debug;
#endif 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.h7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h19 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 0x01000000
Open Source Used In Callisto_PSIRT 1.3.2 1905
void X86EMU_trace_regs(void);

#ifdef __cplusplus
}                       /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

# ****************************************************************************
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# *
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# * IBM Corporation - initial implementation
# *-----------------------------------------------------------------------/
#!/bin/bash

#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether 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

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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This is the software license for Capstone disassembly framework.
Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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threshold for this to be true is not precisely defined by law.

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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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"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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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.

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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.

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.

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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.

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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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That's all there is to it!

1.173 ebtables 2.0.10-4 r4
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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 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.

3. 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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c) 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.)

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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimtools/cmsutil.c. Therefore:

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## 1.177 strace 4.24 r0

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1.179 python-ipaddress 1.0.22 r0

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1.180 ethtool 4.19 r0

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1.181 devmem2 1.0 r7

1.182 go-fsnotify 1.2.11 r0

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1.183 sed 4.2.2 r0
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1.188 libunwind 1.2.1 r0

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1.189 libxslt 1.1.32 r0

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to
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1.192 shadow-securetty 4.6 r3

1.193 sg3-utils 1.42 r0
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1.194 python-pycparser 2.14 1.el7

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1.195 go-capability 0.0 r0

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1.196 tftp-hpa 5.2 r0
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1.198 gnulib 2017-08-20.18 r0

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

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Description:
realpath, canonical_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt  [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
ermo  [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat  [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloc  [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove  [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
configure.ac:

gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi

gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])

Makefile.am:

Include:
<stdlib.h>

License:
LGPLv2+

Maintainer:
all
Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.
Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup [test $REPLACE_GETCWD = 1]

configure.ac:
  gl_FUNC_GETCWD_LGPL
  if test $REPLACE_GETCWD = 1; then
    AC_LIBOBJ([getcwd-lgpl])
  fi
  gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
 <unistd.h>

License:
LGPLv2+

Maintainer:
Eric Blake

Legal Issues about Contributing Code to GNU last updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

* Assign the copyright to the Free Software Foundation. This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.
Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

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The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from distributing the program yourself--as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.
* Public domain.

If you put the program in the public domain, we prefer to have a signed piece of paper--a disclaimer of rights--from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes, we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987  
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)
If you incorporated packages which you found floating around as "public domain", we might still want to track down their authors, to get disclaimers to reassure us that they really are in the public domain. So keep track of what these packages are and who wrote them.

* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix sources or other non-free software that might have any bearing on the project. Don't refer to them at all, unless you are forced to for non-GNU reasons.

It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later.

Description:
Provide the GNU General Public License version 2.0 in Texinfo format.

Files:

```
doc/gpl-2.0.texi
```

Depends-on:

```
configure.ac:
```

```
Makefile.am:
```

Include:

```
License:
unmodifiable license text
```

Maintainer:

```
all
```

Please email the following information to assign@gnu.org, and we will send you the assignment form that covers the changes you have already written. That form will cover subsequent corrections to those changes, but it will not cover other unrelated future changes to the same program.

Please use your full legal name (in ASCII characters) as the subject line of the message.

```
REQUEST: SEND FORM FOR CHANGES ALREADY MADE
```

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[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?] Please email the following information to assign@gnu.org, and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

If you would like to make further contributions to the same package, and you would like to avoid the need to sign more papers when you contribute them, you have another option: to sign a copyright assignment covering your future changes. If that is what you want to do, please tell the maintainer you would prefer to sign an assignment of past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

-----------------------------------------------------------
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[Please list the files involved, or give a brief description of the changes being disclaimed.]
Description:
Provide the GNU Affero General Public License version 3.0 in Texinfo format.

Files:
doc/agpl-3.0.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Extract specific portions of filenames.

Files:
lib/dirmame.h
lib/dirmame-lgpl.c
lib/basname-lgpl.c
lib/stripslash.c
m4/dirmame.m4
Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

Files:
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir=\$(abs_aux_dir)

Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same-inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
check_PROGRAMS += test-canonicalize-lgpl
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Version 2, June 1991

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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.)
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Description:
Provide the GNU Lesser General Public License version 3.0 in Texinfo format.

Files:
doc/lgpl-3.0.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test SRELOCATABLE = yes; then
AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff
Description:
Update an FSF copyright year list to include the current year.

Files:
build-aux/update-copyright

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
GPLed build tool

Maintainer:
Jim Meyering
Description:
Locating a program in PATH (GPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdlib
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
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   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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c) Accompany the work with a written offer, valid for at
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reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
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Files:
- tests/test-getcwd-lgpl.c
- tests/signature.h
- tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
- TESTS += test-getcwd-lgpl
- check_PROGRAMS += test-getcwd-lgpl
- test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

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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 (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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15.01.3664/NT8923.00.54dca388 with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
   enc@nsa.gov,
   web_site@bis.doc.gov,
   pycrypto@lists.dlitz.net,
   PYTHON-CRYPTO@NIC.SURFNET.NL,
   dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AF8D2FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

##################################################################
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#
########################################################

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- - -
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back.
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dltiz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> > =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> > =C2=A0The contents of this file are dedicated to the public domain. =C2=
> =A0To the
> > =C2=A0A0extent that dedication to the public domain is not available, every=
> one
> > =C2=A0A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> > =C2=A0A0to exercise all rights associated with the contents of this file fo=
> r
> > =C2=A0A0any purpose whatsoever. =C2=A0No rights are reserved.
> > > =C2=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=
> > > =C2=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=
> Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=floated
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
   id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
   preference=unprotected
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
> 
> That's great!
> 
>> I understand that you have made contributions to PyCrypto, under nickname
>> "z3p" and/or other names. May I, on your behalf, dedicate to the public
>> domain all your contributions to PyCrypto, with the following notice?
>>
>> The contents of this file are dedicated to the public domain. To the
>> extent that dedication to the public domain is not available, everyone
>> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.
>
> Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

===================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
===================================================================

Regards,
- Dwayne
--
Dwayne C. Litzenberger <dlitz@dlitz.net>

    Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
    Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
    Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
    Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
    by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
    Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
    by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
    Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
    From: Barry Warsaw <barry@python.org>
    To: Dwayne C. Litzenberger <dlitz@dlitz.net>
    In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
    Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
    Content-Transfer-Encoding: quoted-printable
    Mime-Version: 1.0 (Apple Message framework v930.3)
    Subject: Re: PyCrypto license clarification
    Date: Mon, 2 Mar 2009 11:29:34 -0500
    References: <20090301024509.GA13195@rivest.dlitz.net>
    X-Pgp-Agent: GPGMail d55 (v55, Leopard)
    X-Mailer: Apple Mail (2.930.3)
    Status: RO
    Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/eczG+jdZwNvPJRfafa6rhY6+MHLDHI6agk
evJnSJQAcVHIZnV1r5IxgxDUMakZjU4SOV7MqkhsKA9lle7PaD9VSYgn3ra5
gElw12DQDoOy5GExXMM74qrrb1PCCbCRmpaYNo+dZohwHkeFbjwDRA3wItOrH7
SK4w9VJfrY=3D
=3DQduY
-----END PGP SIGNATURE-----
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbD0zngx85S0MGGee/MVn8aw+BHg0YD85gsntDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+16ekJQ3jhu8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+%5+t1ILjtBcZ
wrPExa9Oui9s=
=Z5Y9
-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928C3C1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78

--YiEDa0DAkWCtVeE4
Content-Type: text/plain; charset=us-ascii; format=flowed
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)
```

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

```
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for
```
any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

---

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWClVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFD5EZyloAn33a3ZjkeyJaTbzEqImOEW8JGpf
=ABEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWClVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
by goedel.dlitz.net (Postfix) with ESMTP id 97DC7101105
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0600
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
(envelope-sender <amk@amk.ca>)
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

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--amk (www.amk.ca)

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
    by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
    for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
    d=gmail.com; s=gamma;
    h=mime-version:in-reply-to:references
    :date:message-id:subject:from:to:content-type;
    bh=YWy9U32WCUC/ksRqukHwaOZyJQBUs4Yvt5ml20U6mlI/g=;
    b=oMj#L21LxYiJKgez2zNJV3riU7i9LQFxme5Wp0pLtuNF+X3duyh0pTuBAKw7MwVY
B5E6VQuGVEzyBBnTscopyVgq6bttQuouCLZymSViohmuDmKn5DtuKoxpDk0xCxQmHYaas
L9/A6D3/J6kKsNgxB9m0GPCZTviVFYkPRQ=
DomainKey-Signature: a=rsa-sha1; c=nofws;
    d=gmail.com; s=gamma;
    h=mime-version:in-reply-to:references:date:message-id:subject:from:to
    :content-type;
    b=Ym7CStuDEFJKay1AjWyWzkZmJA11nTcwCG6akBHAXLLd8ht6PFcmlsSffZG8hJCIIVJ8
vJqC7+G6cywVTTBw1pyGX7EYCyrz0+vhGvdpACGrs24zikHfpSSd5GFogzXaLVvGVH8p
bqShfWKKtEP49AQkiNeilq1GNrR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547647677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
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> point of whether distributing modified versions is allowed. (It says
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> 
> ==============================================================
> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ==============================================================
>
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> 
> --amk (www.amk.ca)
> 
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> find if I can release PyCrypto under something cleaner and more standard.
> Below, I have quoted a public domain dedication that was recommended in
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I don’t think the public domain license fits very well, so I’d think we should keep the original BSD license on this module.

Hi Jeethu,

Please direct any further correspondence to jeethu@jeethu-rao.com

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

---000e0cd209d0e5a3d40464a23054---

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

== EOF ==

From dlitz@dlitz.net Mon May 4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided “as is” without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.

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--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
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I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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>
> --
> Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May  5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFA82FCD79E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3863

Excellent! Thank you!

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--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>
>

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

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--
From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE98493;
  for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMPP id DE41F4025F;
  for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Delivered-To: m-dlitz-dlitz@dlitz.net
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com;
  s=s1024; t=1240269933;
b=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=;
  h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bFzpQxy4KFZ88HenniyupGw4Zvlkek9BSk91qKU+51W/TkSGBi5jYZhkLQdkQk0qLz5f4g8dT6bOME3s
  EY1j10hx0K0u2UD0yoYTINBCmsdMQRoj7ph9bmt+p/EjhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB2aU=
DomainKey-Signature:a=rsa-sha1; q=nofws;
  s=s1024; d=yahoo.com;
  h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=r6RShFF5VzQLg+9tcn1xKuo4Rs4lVvXF6fdqOpQrMyRCxeFoobhuTE35grGqlomOJL.wM0+mwR6rGkDj7
  63caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQ9iZ+InrG+3UjwtUSGiF7hEWm1f9P/HBzxf9Wp4b3j
  eo=;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFjtLpMGbUbCLjUbUCQ.i.JkIAKUHSFsFn79PbteawXJ2uKhZGCOILGCX6oVnG3u.CgqzAfFy
  4vVSfnTT8wnCzkzZNz_g6k.XUc3ipo_6e.92TXI4p8MxDGAf1tpNF5nXpwcQ7aRes7jGoWWWJYVyt50cIsUF5S
Hfz772pab8P1yeo_xzSzf3OAgRSh5fCrFC6C8sHPCwurL3YhasbstHmkWffeSS.x6gEcBaxf03oz4FeDb5mpJ54g11X
  onjg8h_TmzX9g848in9g_3f4AWszXm6g6.thoLytXeluzoj4j036wyWpTJKWzEIUaqN83Sy_bj_Ghxw--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
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Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE98493;
  for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMPP id DE41F4025F;
  for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Delivered-To: m-dlitz-dlitz@dlitz.net
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com;
  s=s1024; t=1240269933;
b=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=;
  h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
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DomainKey-Signature:a=rsa-sha1; q=nofws;
  s=s1024; d=yahoo.com;
  h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
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  eo=;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
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  onjg8h_TmzX9g848in9g_3f4AWszXm6g6.thoLytXeluzoj4j036wyWpTJKWzEIUaqN83Sy_bj_Ghxw--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
MIME-Version: 1.0

Open Source Used In Callisto_PSIRT 1.3.2 2281
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> 
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify").
> 
> ______________________________________________________________
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> dissemination and usage except those
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> not at all.
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

---

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
Thanks a lot, and don't worry about not responding to previous emails. I
do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.

> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

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>>
>> Distribute and use freely; there are
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>>
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>> not have to make source available or
>> contribute your changes back
>> (though that would be nice).
>>
>> --amk

(www.amk.ca)
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```
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======================================================================

Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
```

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
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> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> >
> > May I, on your behalf, dedicate to the public domain all your
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> >
> >
> > ==
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> >
> > ==
> >=====================================================================

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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1.201 cracklib 2.9.5 r0
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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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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").

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   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.

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This option is useful when you wish to copy part of the code of
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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
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However, linking a "work that uses the Library" with the Library
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library". The executable is therefore covered by 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.

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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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.

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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b) Give prominent notice with the combined library of the fact
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Also add information on how to contact you by electronic and paper mail.

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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!

-----------

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
> -----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
>
> 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
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir
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
>
> 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.

> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate 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 l91Gxtpr020623
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: <1b1b36fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b36fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@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

>  
>  
>  

Open Source Used In Callisto_PSIRT 1.3.2 2306
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

1.202 python-pretend 1.0.9 r0

1.202.1 Available under license:

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1.204 libnss-mdns 0.10 r7
1.204.1 Available under license:

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(For example, a function in a library to compute square roots has
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root function must still compute square roots.)

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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
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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.

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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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.

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.

e) 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 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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1.205 keyutils 1.5.10 r0

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If distribution of object code is made by offering access to copy
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1.207 python-gevent 1.0b1 r0
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1.208 libnewt 0.52.20 r0

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1.210 libyaml 0.2.1 r0

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1.211 pyflakes 0.7.3

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1.212 binutils 2.31.1 r0

1.213 go-connections 0.2.1 r0

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1.214 selinux-python 2.8 r0

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/*
 * mdadm - manage Linux "md" devices aka RAID arrays.
 *
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 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
static int scan_assemble(struct supertype *ss, 
   struct context *c, 
   struct mddev_ident *ident); 
static int misc_scan(char devmode, struct context *c); 
static int stop_scan(int verbose); 
static int misc_list(struct mddev_dev *devlist, 
   struct mddev_ident *ident, 
   char *dump_directory, 
   struct supertype *ss, struct context *c); 
const char Name[] = "mdadm";

int main(int argc, char *argv[]) 
{
    int mode = 0;
    int opt;
    int option_index;
    int rv;
    int i;

    unsigned long long array_size = 0;
    unsigned long long data_offset = INVALID_SECTORS;
    struct mddev_ident ident;
    char *configfile = NULL;
    int devmode = 0;
    int bitmap_fd = -1;
    struct mddev_dev *devlist = NULL;
    struct mddev_dev **devlistend = & devlist;
    struct mddev_dev *dv;
    int devs_found = 0;
    char *symlinks = NULL;
    int grow_continue = 0;
    /* autof indicates whether and how to create device node.
     * 0  - unset
     * 1  - don't create (no)
     * 2  - if is_standard, then create (yes)
* 3 - create as 'md' - reject is_standard mdp (md)
* 4 - create as 'mdp' - reject is_standard md (mdp)
* 5 - default to md if not is_standard (md in config file)
* 6 - default to mdp if not is_standard (part, or mdp in config file)
*/

struct context c = {
    .require_homehost = 1,
};
struct shape s = {
    .journaldisks = 0,
    .level = UnSet,
    .layout = UnSet,
    .bitmap_chunk = UnSet,
};

char sys_hostname[256];
char *mailaddr = NULL;
char *program = NULL;
int increments = 20;
int daemonise = 0;
char *pidfile = NULL;
int oneshot = 0;
int spare_sharing = 1;
struct supertype *ss = NULL;
enum flag_mode writemostly = FlagDefault;
enum flag_mode failfast = FlagDefault;
char *shortopt = short_options;
int dosyslog = 0;
int rebuild_map = 0;
char *remove_path = NULL;
char *udev_filename = NULL;
char *dump_directory = NULL;

int print_help = 0;
FILE *outf;

int mdfd = -1;

srandom(time(0) ^ getpid());

ident.uuid_set = 0;
ident.level = UnSet;
ident.raid_disks = UnSet;
ident.super_minor = UnSet;
ident.devices = 0;
ident.spare_group = NULL;
ident.autof = 0;
ident.st = NULL;
ident.bitmap_fd = -1;
ident.bitmap_file = NULL;
ident.name[0] = 0;
ident.container = NULL;
ident.member = NULL;

while ((option_index = -1) ,
   (opt=getopt_long(argc, argv,
shortopt, long_options,
&option_index)) != -1) {
  int newmode = mode;
  /* firstly, some mode-independent options */
  switch(opt) {
    case HelpOptions:
      print_help = 2;
      continue;
    case 'h':
      print_help = 1;
      continue;
    case 'V':
      fputs(Version, stderr);
      exit(0);
    case 'v': c.verbose++;
      continue;
    case 'q': c.verbose--;
      continue;
    case 'b':
      if (mode == ASSEMBLE || mode == BUILD ||
          mode == CREATE || mode == GROW ||
          mode == INCREMENTAL || mode == MANAGE)
        break; /* b means bitmap */
    case Brief:
      c.brief = 1;
      continue;
    case 'Y': c.export++;
      continue;
    case HomeHost:
      if (strcasecmp(optarg, "<ignore>") == 0)
        c.require_homehost = 0;
      else
        c.homehost = optarg;
      continue;
  }
}
case OffRootOpt:
    /* Silently ignore old option */
    continue;

case Prefer:
    if (c.prefer)
        free(c.prefer);
    if (asprintf(&c.prefer, "/%s/", optarg) <= 0)
        c.prefer = NULL;
    continue;

case ':':
    case '?':
    fputs(Usage, stderr);
    exit(2);
    }
/* second, figure out the mode.
 * Some options force the mode. Others
 * set the mode if it isn't already
 */

switch(opt) {
    case ManageOpt:
        newmode = MANAGE;
        shortopt = short_bitmap_options;
        break;
    case 'a':
    case Add:
    case AddSpare:
    case AddJournal:
    case 'r':
    case Remove:
    case Replace:
    case With:
    case 'T':
    case Fail:
    case ReAdd: /* re-add */
    case ClusterConfirm:
        if (!mode) {
            newmode = MANAGE;
            shortopt = short_bitmap_options;
        }
        break;

case 'A': newmode = ASSEMBLE;
        shortopt = short_bitmap_auto_options;
        break;
case 'B': newmode = BUILD;
shortopt = short_bitmap_auto_options;
break;
case 'C': newmode = CREATE;
shortopt = short_bitmap_auto_options;
break;
case 'F': newmode = MONITOR;
break;
case 'G': newmode = GROW;
shortopt = short_bitmap_options;
break;
case 'I': newmode = INCREMENTAL;
shortopt = short_bitmap_auto_options;
break;
case AutoDetect:
newmode = AUTODETECT;
break;

case MiscOpt:
case 'D':
case 'E':
case 'X':
case 'Q':
case ExamineBB:
case Dump:
case Restore:
case Action:
newmode = MISC;
break;

case 'R':
case 'S':
case 'o':
case 'w':
case 'W':
case WaitOpt:
case Waitclean:
case DetailPlatform:
case KillSubarray:
case UpdateSubarray:
case UdevRules:
case KillOpt:
if (!mode)
newmode = MISC;
break;

case NoSharing:
newmode = MONITOR;
break;
}
if (mode && newmode == mode) {
    /* everybody happy ! */
} else if (mode && newmode != mode) {
    /* not allowed. */
    pr_err("\n");
    if (option_index >= 0)
        fprintf(stderr, "--%s", long_options[option_index].name);
    else
        fprintf(stderr, "-%c", opt);
    fprintf(stderr, " would set madm mode to \"%s\", but it is already set to \"%s\".\n",
            map_num(modes, newmode),
            map_num(modes, mode));
    exit(2);
} else if (!mode && newmode) {
    mode = newmode;
    if (mode == MISC && devs_found) {
        pr_err("No action given for %s in --misc mode\n",
               devlist->devname);
        cont_err("Action options must come before device names\n");
        exit(2);
    }
}
/* special case of -c --help */
if ((opt == 'c' || opt == ConfigFile) &&
    (strcmp(optarg, "--h") == 0 ||
     strcmp(optarg, "-h", 2) == 0)) {
    puts(Help_config, stdout);
    exit(0);
}
/* If first option is a device, don't force the mode yet */
if (opt == 1) {
    if (devs_found == 0) {
        dv = xmalloc(sizeof(*dv));
        dv->devname = optarg;
        dv->disposition = devmode;
        dv->writemostly = writemostly;
        dv->failfast = failfast;
        dv->used = 0;
        dv->next = NULL;
        *devlistend = dv;
        devlistend = &dv->next;
        devs_found++;
        continue;
    }
}
/* No mode yet, and this is the second device ... */
pr_err("An option must be given to set the mode before a second device\n"
"   (%s) is listed\n", optarg);
exit(2);
}
if (option_index >= 0)
pr_err("--%s", long_options[option_index].name);
else
pr_err("-%c", opt);
fprintf(stderr, " does not set the mode, and so cannot be the first option.\n");
exit(2);
}
/* if we just set the mode, then done */
switch(opt) {
    case ManageOpt:
    case MiscOpt:
    case 'A':
    case 'B':
    case 'C':
    case 'F':
    case 'G':
    case 'I':
    case AutoDetect:
        continue;
    }
if (opt == 1) {
    /* an undecorated option - must be a device name.
     */
    if (devs_found > 0 && devmode == DetailPlatform) {
        pr_err("controller may only be specified once. %s ignored\n", optarg);
        continue;
    }
    if (devs_found > 0 && mode == MANAGE && !devmode) {
        pr_err("Must give one of -a/-r/-f for subsequent devices at %s\n", optarg);
        exit(2);
    }
    if (devs_found > 0 && mode == GROW && !devmode) {
        pr_err("Must give -a/--add for devices to add: %s\n", optarg);
        exit(2);
    }
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition = devmode;
    dv->writemostly = writemostly;
dv->failfast = failfast;
dv->used = 0;
dv->next = NULL;
*devlistend = dv;
devlistend = &dv->next;

devs_found++;
continue;
}

/* We've got a mode, and opt is now something else which
 * could depend on the mode */
#define O(a,b) ((a<<16)|b)
switch (O(mode,opt)) {
 case O(GROW,'c'):
 case O(GROW,ChunkSize):
 case O(CREATE,'c'):
 case O(CREATE,ChunkSize):
 case O(BUILD,'c'): /* chunk or rounding */
 case O(BUILD,ChunkSize): /* chunk or rounding */
 if (s.chunk) {
 pr_err("chunk/rounding may only be specified once. Second value is %s\n", optarg);
 exit(2);
 }
 s.chunk = parse_size(optarg);
 if (s.chunk == INVALID_SECTORS ||
 s.chunk < 8 || (s.chunk&1)) {
 pr_err("invalid chunk/rounding value: %s\n", optarg);
 exit(2);
 }
/* Convert sectors to K */
s.chunk /= 2;
continue;

 case O(INCREMENTAL, 'e'):
 case O(CREATE,'e'):
 case O(ASSEMBLE, 'e'):
 case O(MISC,'e'): /* set metadata (superblock) information */
 if (ss) {
 pr_err("metadata information already given\n");
 exit(2);
 }
 for(i=0; !ss && superlist[i]; i++)
 ss = superlist[i]->match_metadata_desc(optarg);

 if (!ss) {
 pr_err("unrecognised metadata identifier: %s\n", optarg);
}
exit(2);
}
continue;

case O(MANAGE, 'W'):
case O(MANAGE, WriteMostly):
case O(BUILD, 'W'):
case O(BUILD, WriteMostly):
case O(CREATE, 'W'):
case O(CREATE, WriteMostly):
/* set write-mostly for following devices */
writemostly = FlagSet;
continue;

case O(MANAGE, 'w'):
/* clear write-mostly for following devices */
writemostly = FlagClear;
continue;

case O(MANAGE, FailFast):
case O(CREATE, FailFast):
failfast = FlagSet;
continue;

case O(MANAGE, NoFailFast):
failfast = FlagClear;
continue;

case O(GROW, 'z'):
case O(CREATE, 'z'):
case O(BUILD, 'z'): /* size */
if (s.size > 0) {
    pr_err("size may only be specified once. Second value is %s\n", optarg);
    exit(2);
}
if (strcmp(optarg, "max") == 0)
    s.size = MAX_SIZE;
else {
    s.size = parse_size(optarg);
    if (s.size == INVALID_SECTORS || s.size < 8) {
        pr_err("invalid size: %s\n", optarg);
        exit(2);
    }
    /* convert sectors to K */
    s.size /= 2;
}
continue;

case O(GROW, 'Z'): /* array size */
if (array_size > 0) {
    pr_err("array-size may only be specified once. Second value is %s\n", optarg);
    exit(2);
}
if (strcmp(optarg, "max") == 0)
    array_size = MAX_SIZE;
else {
    array_size = parse_size(optarg);
    if (array_size == 0 ||
        array_size == INVALID_SECTORS) {
        pr_err("invalid array size: %s\n", optarg);
        exit(2);
    }
}
continue;

case O(CREATE, DataOffset):
case O(GROW, DataOffset):
    if (data_offset != INVALID_SECTORS) {
        pr_err("data-offset may only be specified one. Second value is %s\n", optarg);
        exit(2);
    }
    if (mode == CREATE && strcmp(optarg, "variable") == 0)
        data_offset = VARIABLE_OFFSET;
    else
        data_offset = parse_size(optarg);
    if (data_offset == INVALID_SECTORS) {
        pr_err("invalid data-offset: %s\n", optarg);
        exit(2);
    }
    continue;

case O(GROW, 'l'):
case O(CREATE, 'l'):
case O(BUILD, 'l'): /* set raid level*/
    if (s.level != UnSet) {
        pr_err("raid level may only be set once. Second value is %s\n", optarg);
        exit(2);
    }
    s.level = map_name(pers, optarg);
    if (s.level == UnSet) {
        pr_err("invalid raid level: %s\n", optarg);
        exit(2);
    }
    if (s.level != 0 && s.level != LEVEL_LINEAR &&
s.level != 1 && s.level != LEVEL_MULTIPATH &&
  s.level != LEVEL_FAULTY && s.level != 10 &&
  mode == BUILD) {
  pr_err("Raid level %s not permitted with --build.",
         optarg);
  exit(2);
}
if (s.sparedisks > 0 && s.level < 1 && s.level >= -1) {
  pr_err("raid level %s is incompatible with spare-devices setting.",
         optarg);
  exit(2);
}
ident.level = s.level;
continue;

  case O(GROW, 'p'): /* new layout */
  case O(GROW, Layout):
    if (s.layout_str) {
      pr_err("layout may only be sent once. Second value was %s
             ", optarg);
      exit(2);
    }
    s.layout_str = optarg;
    /* 'Grow' will parse the value */
    continue;

case O(CREATE, 'p'): /* raid5 layout */
  case O(CREATE, Layout):
    case O(BUILD, 'p'): /* faulty layout */
    case O(BUILD, Layout):
      if (s.layout != UnSet) {
        pr_err("layout may only be sent once. Second value was %s
                ", optarg);
        exit(2);
      }
      switch(s.level) {
        default:
          pr_err("layout not meaningful for %s arrays.
                 ", map_num(pers, s.level));
          exit(2);
        case UnSet:
          pr_err("raid level must be given before layout.
                  ");
          exit(2);
        case 5:
          s.layout = map_name(r5layout, optarg);
          if (s.layout==UnSet) {
            pr_err("layout %s not understood for raid5.
                    ", optarg);
            exit(2);
break;
case 6:
s.layout = map_name(r6layout, optarg);
if (s.layout==UnSet) {
    pr_err("layout %s not understood for raid6.\n", optarg);
    exit(2);
}
break;

case 10:
s.layout = parse_layout_10(optarg);
if (s.layout < 0) {
    pr_err("layout for raid10 must be 'nNN', 'oNN' or 'fNN' where NN is a number, not %s\n", optarg);
    exit(2);
}
break;
case LEVEL_FAULTY:
    /* Faulty
     * modeNNN
     */
s.layout = parse_layout_faulty(optarg);
if (s.layout == -1) {
    pr_err("layout %s not understood for faulty.\n", optarg);
    exit(2);
}
break;
continue;

case O(CREATE,AssumeClean):
case O(BUILD,AssumeClean): /* assume clean */
case O(GROW,AssumeClean):
s.assume_clean = 1;
continue;

case O(GROW,'n'):
case O(CREATE,'n'):
case O(BUILD,'n'): /* number of raid disks */
if (s.raiddisks) {
    pr_err("raid-devices set twice: %d and %s\n", s.raiddisks, optarg);
    exit(2);
}
s.raiddisks = parse_num(optarg);
if (s.raiddisks <= 0) {
pr_err("invalid number of raid devices: \%s\n", optarg);
exit(2);
}
ident.raid_disks = s.raiddisks;
continue;
case O(ASSEMBLE, Nodes):
case O(GROW, Nodes):
case O(CREATE, Nodes):
c.nodes = parse_num(optarg);
if (c.nodes <= 0) {
    pr_err("invalid number for the number of cluster nodes: \%s\n", optarg);
    exit(2);
}
continue;
case O(CREATE, ClusterName):
case O(ASSEMBLE, ClusterName):
c.homecluster = optarg;
if (strlen(c.homecluster) > 64) {
    pr_err("Cluster name too big.\n");
    exit(ERRANGE);
}
continue;
case O(CREATE,'x'): /* number of spare (eXtra) disks */
if (s.sparedisks) {
    pr_err("spare-devices set twice: \%d and \%s\n", 
        s.sparedisks, optarg);
    exit(2);
}
if (s.level != UnSet && s.level <= 0 && s.level >= -1) {
    pr_err("spare-devices setting is incompatible with raid level \%d\n", 
        s.level);
    exit(2);
}
s.sparedisks = parse_num(optarg);
if (s.sparedisks < 0) {
    pr_err("invalid number of spare-devices: \%s\n", 
        optarg);
    exit(2);
}
continue;

case O(CREATE,'a'):
case O(CREATE,Auto):
case O(BUILD,'a'):
case O(BUILD,Auto):
case O(INCREMENTAL,'a'):
case O(INCREMENTAL, Auto):
case O(ASSEMBLE, 'a'):
case O(ASSEMBLE, Auto): /* auto-creation of device node */
c. autof = parse_auto(optarg, "--auto flag", 0);
continue;

case O(CREATE, Symlinks):
case O(BUILD, Symlinks):
case O(ASSEMBLE, Symlinks): /* auto creation of symlinks in /dev to /dev/md */
symlinks = optarg;
continue;

case O(BUILD, 'f'): /* force honouring `-n 1` */
case O(BUILD, Force): /* force honouring `-n 1` */
case O(GROW, 'f'): /* ditto */
case O(GROW, Force): /* ditto */
case O(CREATE, 'f'): /* force honouring of device list */
case O(CREATE, Force): /* force honouring of device list */
case O(ASSEMBLE, 'f'): /* force assembly */
case O(ASSEMBLE, Force): /* force assembly */
case O(MISC, 'f'): /* force zero */
case O(MISC, Force): /* force zero */
case O(MANAGE, Force): /* add device which is too large */
cforce = 1;
continue;
/* now for the Assemble options */
case O(ASSEMBLE, FreezeReshape): /* Freeze reshape during * initrd phase */
case O(INCREMENTAL, FreezeReshape):
c.freeze_reshape = 1;
continue;
case O(CREATE, 'u'): /* uuid of array */
case O(ASSEMBLE, 'u'): /* uuid of array */
if (ident.uuid_set) {
    pr_err("uuid cannot be set twice. Second value %s\n", optarg);
    exit(2);
}
if (parse_uuid(optarg, ident.uuid))
    ident.uuid_set = 1;
else {
    pr_err("Bad uuid: %s\n", optarg);
    exit(2);
}
continue;

case O(CREATE, 'N'):
case O(ASSEMBLE, 'N'):
case O(MISC, 'N'):
if (ident.name[0]) {
    pr_err("name cannot be set twice. Second value %s\n", optarg);
    exit(2);
}
if (mode == MISC && !c.subarray) {
    pr_err("-N/--name only valid with --update-subarray in misc mode\n");
    exit(2);
}
if (strlen(optarg) > 32) {
    pr_err("name 's is too long, 32 chars max.\n", optarg);
    exit(2);
}
strcpy(ident.name, optarg);
continue;

case O(ASSEMBLE,'m'): /* super-minor for array */
    case O(ASSEMBLE,SuperMinor):
        if (ident.super_minor != UnSet) {
            pr_err("super-minor cannot be set twice. Second value %s\n", optarg);
            exit(2);
        }
        if (strcmp(optarg, "dev") == 0)
            ident.super_minor = -2;
        else {
            ident.super_minor = parse_num(optarg);
            if (ident.super_minor < 0) {
                pr_err("Bad super-minor number: %s\n", optarg);
                exit(2);
            }
        }
        continue;

    case O(MANAGE,'o'):
        case O(CREATE,'o'):
        c.readonly = 1;
        continue;

    case O(ASSEMBLE,'U'): /* update the superblock */
        case O(MISC,'U'):
            if (c.update) {
                pr_err("Can only update one aspect of superblock, both %s and %s given.\n", c.update, optarg);
                c.update, optarg);
                exit(2);
            }
        if (mode == MISC && !c.subarray) {
            pr_err("Only subarrays can be updated in misc mode\n");
        }
exit(2);
}
c.update = optarg;
if (strcmp(c.update, "sparc2.2") == 0)
continue;
if (strcmp(c.update, "super-minor") == 0)
continue;
if (strcmp(c.update, "summaries") == 0)
continue;
if (strcmp(c.update, "resync") == 0)
continue;
if (strcmp(c.update, "uuid") == 0)
continue;
if (strcmp(c.update, "name") == 0)
continue;
if (strcmp(c.update, "homehost") == 0)
continue;
if (strcmp(c.update, "home-cluster") == 0)
continue;
if (strcmp(c.update, "nodes") == 0)
continue;
if (strcmp(c.update, "devicesize") == 0)
continue;
if (strcmp(c.update, "no-bitmap") == 0)
continue;
if (strcmp(c.update, "bbl") == 0)
continue;
if (strcmp(c.update, "no-bbl") == 0)
continue;
if (strcmp(c.update, "force-no-bbl") == 0)
continue;
if (strcmp(c.update, "metadata") == 0)
continue;
if (strcmp(c.update, "revert-reshape") == 0)
continue;
if (strcmp(c.update, "byteorder") == 0) {
  if (ss) {
    pr_err("must not set metadata type with --update=byteorder.n");
    exit(2);
  }
}
for(i=0; !ss && &superlist[i]; i++)
  ss = superlist[i]->match_metadata_desc("0.swap");
if (!ss) {
  pr_err("INTERNAL ERROR cannot find 0.swap");
  exit(2);
}
continue;

if (strcmp(c.update,"?")) == 0 ||
    strcmp(c.update, "help") == 0) {
    outf = stdout;
    fprintf(outf, "%s: ", Name);
} else {
    outf = stderr;
    fprintf(outf, "%s: '--update=%s' is invalid. ",
    Name, c.update);
}
if (c.update) {
    pr_err("Can only update one aspect of superblock, both %s and %s given.",
    c.update, optarg);
    exit(2);
}
c.update = optarg;
if (strcmp(c.update, "devicesize") != 0 &&
    strcmp(c.update, "bbl") != 0 &&
    strcmp(c.update, "force-no-bbl") != 0) {
    pr_err("only 'devicesize', 'bbl', 'no-bbl', and 'force-no-bbl' can be updated with --re-add\n");
    exit(2);
}
continue;

pr_err("--no-degraded is deprecated in Incremental mode
");
case O(INCREMENTAL,NoDegraded):
    pr_err("--no-degraded is deprecated in Incremental mode\n");
case O(ASSEMBLE,NoDegraded):
    c.runstop = -1; /* --stop isn't allowed for --assemble,
    * so we overload slightly */
    continue;
case O(ASSEMBLE,'c'):
case O(ASSEMBLE,ConfigFile):
case O(INCREMENTAL, 'c'):
case O(INCREMENTAL, ConfigFile):
case O(MISC, 'c'):
case O(MISC, ConfigFile):
case O(MONITOR,'c'):
case O(MONITOR,ConfigFile):
case O(CREATE,ConfigFile):
if (configfile) {
    pr_err("configfile cannot be set twice. Second value is %s\n", optarg);
    exit(2);
}
configfile = optarg;
set_conffile(configfile);
/* FIXME possibly check that config file exists. Even parse it */
continue;
case O(ASSEMBLE,'s'): /* scan */
case O(MISC,'s'):
case O(MONITOR,'s'):
case O(INCREMENTAL,'s'):
c.c.scan = 1;
continue;
case O(MONITOR,'m'): /* mail address */
case O(MONITOR,EMail):
    if (mailaddr)
        pr_err("only specify one mailaddress. %s ignored.\n", optarg);
    else
        mailaddr = optarg;
    continue;

    case O(MONITOR,'p'): /* alert program */
case O(MONITOR,ProgramOpt): /* alert program */
    if (program)
        pr_err("only specify one alter program. %s ignored.\n", optarg);
    else
        program = optarg;
    continue;

    case O(MONITOR,'r'): /* rebuild increments */
case O(MONITOR,Increment):
    increments = atoi(optarg);
    if (increments > 99 || increments < 1) {
        pr_err("please specify positive integer between 1 and 99 as rebuild increments.\n")
        exit(2);
    }
continue;

case O(MONITOR,'d'): /* delay in seconds */
  case O(GROW,'d'):
  case O(BUILD,'d'): /* delay for bitmap updates */
  case O(CREATE,'d'):
    if (c.delay)
      pr_err("only specify delay once. %s ignored.", optarg);
    else {
      c.delay = parse_num(optarg);
      if (c.delay < 1)
        pr_err("invalid delay: %s\n", optarg);
      exit(2);
    }
    continue;
    case O(MONITOR,'f'): /* daemonise */
  case O(MONITOR,Fork):
    daemonise = 1;
    continue;
    case O(MONITOR,'i'): /* pid */
      if (pidfile)
        pr_err("only specify one pid file. %s ignored.\n", optarg);
      else
        pidfile = optarg;
      continue;
    case O(MONITOR,'l'): /* oneshot */
      oneshot = 1;
      spare_sharing = 0;
      continue;
    case O(MONITOR,'t'): /* test */
      c.test = 1;
      continue;
    case O(MONITOR,'y'): /* log messages to syslog */
      openlog("mdadm", LOG_PID, SYSLOG_FACILITY);
      dosyslog = 1;
      continue;
    case O(MONITOR, NoSharing):
      spare_sharing = 0;
      continue;

    /* now the general management options. Some are applicable
     * to other modes. None have arguments.
     */
case O(GROW,'a'):
    case O(GROW,Add):
    case O(MANAGE,'a'):
        case O(MANAGE,Add): /* add a drive */
        devmode = 'a';
        continue;
    case O(MANAGE,AddSpare): /* add drive - never re-add */
        devmode = 'S';
        continue;
    case O(MANAGE,AddJournal): /* add journal */
        if (s.journaldisks && (s.level < 4 || s.level > 6)) {
            pr_err("--add-journal is only supported for RAID level 4/5/6.\n");
            exit(2);
        }
        devmode = 'j';
        continue;
    case O(MANAGE,ReAdd):
        devmode = 'A';
        continue;
    case O(MANAGE,'r'): /* remove a drive */
    case O(MANAGE,Remove):
        devmode = 'r';
        continue;
    case O(MANAGE,T): /* set faulty */
    case O(MANAGE,Fail):
    case O(INCREMENTAL,T):
    case O(INCREMENTAL,Remove):
    case O(INCREMENTAL,Fail): /* r for incremental is taken, use f
        * even though we will both fail and
        * remove the device */
        devmode = 'f';
        continue;
    case O(MANAGE,ClusterConfirm):
        devmode = 'C';
        continue;
    case O(MANAGE,Replace):
        /* Mark these devices for replacement */
        devmode = 'R';
        continue;
    case O(MANAGE,With):
        /* These are the replacements to use */
        if (devmode != 'R') {
            pr_err("--with must follow --replace\n");
            exit(2);
        }
        devmode = 'W';
        continue;
    case O(INCREMENTAL,R):
case O(MANAGE,'R');
case O(ASSEMBLE,'R');
case O(BUILD,'R');
case O(CREATE,'R'): /* Run the array */
if (c.runstop < 0) {
    pr_err("Cannot both Stop and Run an array\n");
    exit(2);
}
c.runstop = 1;
continue;
case O(MANAGE,'S');
if (c.runstop > 0) {
    pr_err("Cannot both Run and Stop an array\n");
    exit(2);
}
c.runstop = -1;
continue;
case O(MANAGE,'t');
c.test = 1;
continue;

case O(MISC,'Q');
case O(MISC,'D');
case O(MISC,'E');
case O(MISC,KillOpt);
case O(MISC,'R');
case O(MISC,'S');
case O(MISC,'X');
case O(MISC, ExamineBB);
case O(MISC,'o');
case O(MISC,'w');
case O(MISC,'W');
case O(MISC, WaitOpt);
case O(MISC, Waitclean);
case O(MISC, DetailPlatform);
case O(MISC, KillSubarray);
case O(MISC, UpdateSubarray);
case O(MISC, Dump);
case O(MISC, Restore);
case O(MISC,Action);
if (opt == KillSubarray || opt == UpdateSubarray) {
    if (c.subarray) {
        pr_err("subarray can only be specified once\n");
        exit(2);
    }
    c.subarray = optarg;
}
if (c.action) {
    pr_err("Only one --action can be specified\n");
    exit(2);
}
if (strcmp(optarg, "idle") == 0 ||
    strcmp(optarg, "frozen") == 0 ||
    strcmp(optarg, "check") == 0 ||
    strcmp(optarg, "repair") == 0)
c.action = optarg;
else {
    pr_err("action must be one of idle, frozen, check, repair\n");
    exit(2);
}
}
if (devmode && devmode != opt &&
    (devmode == 'E' ||
    (opt == 'E' && devmode != 'Q'))) {
    pr_err("--examine/-E cannot be given with ");
    if (devmode == 'E') {
        if (option_index >= 0)
            fprintf(stderr, "--%s
",
                long_options[option_index].name);
        else if (isalpha(devmode))
            fprintf(stderr, "-%c
", opt);
        else
            fprintf(stderr, "previous option\n");
    }
    exit(2);
}
devmode = opt;
if (opt == Dump || opt == Restore) {
    if (dump_directory != NULL) {
        pr_err("dump/restore directory specified twice: %s and %s\n",
            dump_directory, optarg);
        exit(2);
    }
    dump_directory = optarg;
}
continue;
case O(MISC, UdevRules):
    if (devmode && devmode != opt) {
        pr_err("--udev-rules must be the only option.\n");
    } else {
        if (udev_filename)
            pr_err("only specify one udev rule filename. %s ignored.\n",
                optarg);
        else
udev_filename = optarg;
}
devmode = opt;
continue;
case O(MISC, 't'):
c.test = 1;
continue;
case O(MISC, Sparc22):
if (devmode != 'E') {
pr_err("--sparc2.2 only allowed with --examine\n");
exit(2);
} else {
c.SparcAdjust = 1;
continue;
}
case O(ASSEMBLE, b'): /* here we simply set the bitmap file */
case O(ASSEMBLE, Bitmap):
if (!optarg) {
pr_err("bitmap file needed with -b in --assemble mode\n");
exit(2);
}
if (strcmp(optarg, "internal") == 0) {
pr_err("there is no need to specify --bitmap when assembling arrays with internal bitmaps\n");
continue;
} else {
bitmap_fd = open(optarg, O_RDWR);
if (!optarg || bitmap_fd < 0) {
pr_err("cannot open bitmap file %s: %s\n", optarg, strerror(errno));
exit(2);
}
ident.bitmap_fd = bitmap_fd; /* for Assemble */
continue;
}
case O(ASSEMBLE, BackupFile):
case O(GROW, BackupFile):
/* Specify a file into which grow might place a backup,
* or from which assemble might recover a backup
*/
if (c.backup_file) {
pr_err("backup file already specified, rejecting %s\n", optarg);
exit(2);
} else {
c.backup_file = optarg;
continue;
}
case O(GROW, Continue):
/* Continue interrupted grow

grow继续 = 1;
continue;
case O(ASSEMBLE, InvalidBackup):
    /* 肯定备份文件无效，但要求
    * 继续
    */
c.无效备份 = 1;
continue;
case O(BUILD,'b'):
case O(BUILD, Bitmap):
case O(CREATE,'b'):
case O(CREATE, Bitmap):
    /* 这里创建 bitmap */
case O(GROW,'b'):
case O(GROW, Bitmap):
    if (strcmp(optarg, "internal") == 0 ||
        strcmp(optarg, "none") == 0 ||
        strchr(optarg, '/') != NULL) {
        s.bitmap_file = optarg;
        continue;
    }
    if (strcmp(optarg, "clustered") == 0) {
        s.bitmap_file = optarg;
        /* 设置默认的 cluster nodes 数量
        * 如果不被设置
        */
        if (c.nodes < 1)
            c.nodes = 4;
        continue;
    }
    /* 可能的错误 */
    pr_err("bitmap file must contain a ", or be 'internal', or be 'clustered', or 'none"
            " not %s", optarg);
    exit(2);
case O(GROW, BitmapChunk):
case O(BUILD, BitmapChunk):
case O(CREATE, BitmapChunk):
    /* bitmap chunksize */
s.bitmap_chunk = parse_size(optarg);
    if (s.bitmap_chunk == 0 ||
        s.bitmap_chunk == INVALID_SECTORS ||
        s.bitmap_chunk & (s.bitmap_chunk - 1)) {
        pr_err("invalid bitmap chunksize: %s",
               optarg);
        exit(2);
    }
    s.bitmap_chunk = s.bitmap_chunk * 512;
continue;

case O(GROW, WriteBehind):
case O(BUILD, WriteBehind):
case O(CREATE, WriteBehind): /* write-behind mode */
s.write_behind = DEFAULT_MAX_WRITE_BEHIND;
if (optarg) {
    s.write_behind = parse_num(optarg);
    if (s.write_behind < 0 ||
        s.write_behind > 16383) {
        pr_err("Invalid value for maximum outstanding write-behind writes: \%s.\n\tMust be between 0 and 16383.\n", optarg);
        exit(2);
    }
} continue;

case O(INCREMENTAL, 'r'):
case O(INCREMENTAL, RebuildMapOpt):
    rebuild_map = 1;
    continue;

case O(INCREMENTAL, IncrementalPath):
    remove_path = optarg;
    continue;

case O(CREATE, WriteJournal):
    if (s.journaldisks) {
        pr_err("Please specify only one journal device for the array.\n");
        pr_err("Ignoring --write-journal \%s...\n", optarg);
        continue;
    }
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition = 'j'; /* WriteJournal */
    dv->used = 0;
    dv->next = NULL;
    *devlistend = dv;
    devlistend = &dv->next;
    devs_found++;

    s.journaldisks = 1;
    continue;
} /* We have now processed all the valid options. Anything else is */
/* an error */
if (option_index > 0)
    pr_err("option --\%s not valid in \%s mode\n",
    long_options[option_index].name,
map_num(modes, mode));
else
    pr_err("option -%c not valid in %s mode\n", opt, map_num(modes, mode));
    exit(2);

}

if (print_help) {
    char *help_text;
    if (print_help == 2)
        help_text = OptionHelp;
    else
        help_text = mode_help[mode];
    if (help_text == NULL)
        help_text = Help;
    fputs(help_text, stdout);
    exit(0);
}

if (s.journaldisks && (s.level < 4 || s.level > 6)) {
    pr_err("--write-journal is only supported for RAID level 4/5/6.\n");
    exit(2);
}

if (!mode && devs_found) {
    mode = MISC;
    devmode = 'Q';
    if (devlist->disposition == 0)
        devlist->disposition = devmode;
}
if (!mode) {
    fputs(Usage, stderr);
    exit(2);
}

if (symlinks) {
    struct createinfo *ci = conf_get_create_info();

    if (strcasecmp(symlinks, "yes") == 0)
        ci->symlinks = 1;
    else if (strcasecmp(symlinks, "no") == 0)
        ci->symlinks = 0;
    else {
        pr_err("option --symlinks must be 'no' or 'yes'\n");
        exit(2);
    }
}
/ Ok, got the option parsing out of the way
* hopefully it's mostly right but there might be some stuff
* missing
*
* That is mostly checked in the per-mode stuff but...
*
* For @,B,C and A without -s, the first device listed must be
* an md device. We check that here and open it.
*/

if (mode == MANAGE || mode == BUILD || mode == CREATE ||
    mode == GROW || (mode == ASSEMBLE && ! c.scan)) {
    if (devs_found < 1) {
        pr_err("an md device must be given in this mode\n");
        exit(2);
    }
    if ((int)ident.super_minor == -2 && c.autof) {
        pr_err("--super-minor=dev is incompatible with --auto\n");
        exit(2);
    }
    if (mode == MANAGE || mode == GROW) {
        mdfd = open_mddev(devlist->devname, 1);
        if (mdfd < 0)
            exit(1);
    } else
        /* non-existent device is OK */
    mdfd = open_mddev(devlist->devname, 0);
    if (mdfd == -2) {
        pr_err("device %s exists but is not an md array.\n", devlist->devname);
        exit(1);
    }
    if ((int)ident.super_minor == -2) {
        struct stat stb;
        if (mdfd < 0) {
            pr_err("--super-minor=dev given, and listed device %s doesn't exist.\n", devlist->devname);
            exit(1);
        }
        fstat(mdfd, &stb);
        ident.super_minor = minor(stb.st_rdev);
    }
    if (mdfd >= 0 && mode != MANAGE && mode != GROW) {
        /* We don't really want this open yet, we just might
         * have wanted to check some things
         */
        close(mdfd);
        mdfd = -1;
    }
if (s.raiddisks) {
    if (s.raiddisks == 1 && !c.force && s.level != LEVEL_FAULTY) {
        pr_err("'1' is an unusual number of drives for an array, so it is probably a mistake. If you really mean it you will need to specify --force before setting the number of drives.\n")
        exit(2);
    }
}

if (c.homehost == NULL && c.require_homehost)
    c.homehost = conf_get_homehost(&c.require_homehost);
if (c.homehost == NULL || strcasecmp(c.homehost, "<system>") == 0) {
    if (gethostname(sys_hostname, sizeof(sys_hostname)) == 0) {
        sys_hostname[sizeof(sys_hostname)-1] = 0;
        c.homehost = sys_hostname;
    }
}
if (c.homehost && (!c.homehost[0] || strcasecmp(c.homehost, "<none>"))) {
    c.homehost = NULL;
    c.require_homehost = 0;
}
rv = 0;
	net_hooks(); /* set hooks from libs */

if (c.homecluster == NULL && (c.nodes > 0)) {
    c.homecluster = conf_get_homecluster();
    if (c.homecluster == NULL)
        rv = get_cluster_name(&c.homecluster);
    if (rv) {
        pr_err("The md can't get cluster name\n");
        exit(1);
    }
}

if (c.backup_file && data_offset != INVALID_SECTORS) {
    pr_err("--backup-file and --data-offset are incompatible\n");
    exit(2);
}

if ((mode == MISC && devmode == 'E') ||
    (mode == MONITOR && spare_sharing == 0)) {
    /* Anyone may try this */;
}
else if (geteuid() != 0) {

pr_err("must be super-user to perform this action\n");
exit(1);

ident.autof = c.autof;

if (c.scan && c.verbose < 2)
/* --scan implied --brief unless -vv */
c.brief = 1;

switch(mode) {
    case MANAGE:
        /* readonly, add/remove, readwrite, runstop */
        if (c.readonly > 0)
            rv = Manage_ro(devlist->devname, mdfd, c.readonly);
        if (!rv && devs_found>1)
            rv = Manage_subdevs(devlist->devname, mdfd,
                    devlist->next, c.verbose, c.test,
                    c.update, c.force);
        if (!rv && c.readonly < 0)
            rv = Manage_ro(devlist->devname, mdfd, c.readonly);
        if (!rv && c.runstop > 0)
            rv = Manage_run(devlist->devname, mdfd, &c);
        if (!rv && c.runstop < 0)
            rv = Manage_stop(devlist->devname, mdfd, c.verbose, 0);
        break;
    case ASSEMBLE:
        if (devs_found == 1 && ident.uuid_set == 0 &&
                ident.super_minor == UnSet && ident.name[0] == 0 && !c.scan) {
            /* Only a device has been given, so get details from config file */
            struct mddev_ident *array_ident = conf_get_ident(devlist->devname);
            if (array_ident == NULL) {
                pr_err("%s not identified in config file.\n", devlist->devname);
                rv |= 1;
                if (mdfd >= 0)
                    close(mdfd);
            } else {
                if (array_ident->autof == 0)
                    array_ident->autof = c.autof;
                rv |= Assemble(ss, devlist->devname, array_ident,
                        NULL, &c);
            }
        } else if (!c.scan)
            rv = Assemble(ss, devlist->devname, &ident,
                    devlist->next, &c);
        else if (devs_found > 0) {
if (c.update && devs_found > 1) {
    pr_err("can only update a single array at a time\n");
    exit(1);
}
if (c.backup_file && devs_found > 1) {
    pr_err("can only assemble a single array when providing a backup file.\n");
    exit(1);
}
for (dv = devlist ; dv ; dv=dv->next) {
    struct mddev_ident *array_ident = conf_get_ident(dv->devname);
    if (array_ident == NULL) {
        pr_err("%s not identified in config file.\n",
            dv->devname);
        rv |= 1;
        continue;
    }
    if (array_ident->autof == 0)
        array_ident->autof = c.autof;
    rv |= Assemble(ss, dv->devname, array_ident,
            NULL, &c);
}
else {
    if (c.update) {
        pr_err("--update not meaningful with a --scan assembly.\n");
        exit(1);
    }
    if (c.backup_file) {
        pr_err("--backup_file not meaningful with a --scan assembly.\n");
        exit(1);
    }
    rv = scan_assemble(ss, &c, &ident);
}
break;
case BUILD:
    if (c.delay == 0)
        c.delay = DEFAULT_BITMAP_DELAY;
    if (s.write_behind && !s.bitmap_file) {
        pr_err("write-behind mode requires a bitmap.\n");
        rv = 1;
        break;
    }
    if (s.raiddisks == 0) {
        pr_err("no raid-devices specified.\n");
        rv = 1;
        break;
    }
if (s.bitmap_file) {
if (strcmp(s.bitmap_file, "internal") == 0 ||
    strcmp(s.bitmap_file, "clustered") == 0) {
    pr_err("'internal' and 'clustered' bitmaps not supported with --build\n");
    rv |= 1;
    break;
}
}
rv = Build(devlist->devname, devlist->next, &s, &c);
break;
case CREATE:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;

if (c.nodes) {
if (!s.bitmap_file ||
    strcmp(s.bitmap_file, "clustered") != 0) {
    pr_err("--nodes argument only compatible with --bitmap=clustered\n");
    rv = 1;
    break;
}
if (s.level != 1) {
    pr_err("--bitmap=clustered is currently supported with RAID mirror only\n");
    rv = 1;
    break;
}
}

if (s.write_behind && !s.bitmap_file) {
    pr_err("write-behind mode requires a bitmap.\n");
    rv = 1;
    break;
}
if (s.raiddisks == 0) {
    pr_err("no raid-devices specified.\n");
    rv = 1;
    break;
}
rv = Create(ss, devlist->devname,
    ident.name, ident.uuid_set ? ident.uuid : NULL,
    devs_found-1, devlist->next,
    &s, &c, data_offset);
break;
case MISC:
if (devmode == 'E') {
    if (devlist == NULL && !c.scan) {
pr_err("No devices to examine\n");
exit(2);
}
if (devlist == NULL)
devlist = conf_get_devs();
if (devlist == NULL) {
pr_err("No devices listed in %s\n", configfile?configfile:DefaultConfFile);
exit(1);
}
rv = Examine(devlist, &c, ss);
} else if (devmode == DetailPlatform) {
r = Detail_Platform(ss ? ss:ss : NULL, ss ? c.scan : 1,
  c.verbose, c.export,
  devlist ? devlist->devname : NULL);
} else if (devlist == NULL) {
if (devmode == 'S' && c.scan)
rv = stop_scan(c.verbose);
else if ((devmode == 'D' || devmode == Waitclean) &&
  c.scan)
r = misc_scan(devmode, &c);
else if (devmode == UdevRules)
r = Write_rules(udev_filename);
else {
pr_err("No devices given.\n");
exit(2);
}
} else
rv = misc_list(devlist, &ident, dump_directory, ss, &c);
break;
case MONITOR:
  if (!devlist && !c.scan) {
pr_err("Cannot monitor: need --scan or at least one device\n");
rv = 1;
break;
}
  if (pidfile && !daemonise) {
pr_err("Cannot write a pid file when not in daemon mode\n");
rv = 1;
break;
}
  if (c.delay == 0) {
if (get_linux_version() > 2006016)
/* mdstat responds to poll */
c.delay = 1000;
else
c.delay = 60;
}
r = Monitor(devlist, mailaddr, program,
&c, daemonise, oneshot,
dosyslog, pidfile, increments,
spare_sharing);
break;

case GROW:
if (array_size > 0) {
/* always impose array size first, independent of
   * anything else
   * Do not allow level or raid_disks changes at the
   * same time as that can be irreversibly destructive.
   */
   struct mdinfo sra;
   int err;
   if (s.raiddisks || s.level != UnSet) {
      pr_err("cannot change array size in same operation as changing raid_disks or level.
    " Change size first, then check that data is still intact.");
      rv = 1;
      break;
   }
   sysfs_init(&sra, mdfd, NULL);
   if (array_size == MAX_SIZE)
      err = sysfs_set_str(&sra, NULL, "array_size", "default");
   else
      err = sysfs_set_num(&sra, NULL, "array_size", array_size / 2);
   if (err < 0) {
      if (errno == E2BIG)
         pr_err("--array-size setting is too large.");
      else
         pr_err("current kernel does not support setting --array-size\n");
      rv = 1;
      break;
   }
   if (devs_found > 1 && s.raiddisks == 0 && s.level == UnSet) {
      /* must be '-a'. */
      if (s.size > 0 || s.chunk ||
          s.layout_str || s.bitmap_file) {
         pr_err("--add cannot be used with other geometry changes in --grow mode\n");
         rv = 1;
         break;
      }
      for (dv=devlist->next; dv ; dv=dv->next) {
         rv = Grow_Add_device(devlist->devname, mdfd,
              dv->devname);
         if (rv)
            break;
      }
if (s.bitmap_file) {
    if (s.size > 0 || s.raiddisks || s.chunk || s.layout_str || devs_found > 1) {
        pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode\n");
        rv = 1;
        break;
    }
    if (c.delay == 0)
        c.delay = DEFAULT_BITMAP_DELAY;
    rv = Grow_addbitmap(devlist->devname, mdfd, &c, &s);
} else if (grow_continue)
    rv = Grow_continue_command(devlist->devname,
        mdfd, c.backup_file,
        c.verbose);
else if (s.size > 0 || s.raiddisks || s.layout_str || s.chunk != 0 || s.level != UnSet || data_offset != INVALID_SECTORS) {
    rv = Grow_reshape(devlist->devname, mdfd,
        devlist->next,
        data_offset, &c, &s);
} else if (array_size == 0)
    pr_err("no changes to --grow\n");
break;

case INCREMENTAL:
    if (rebuild_map) {
        RebuildMap();
    }
    if (c.scan) {
        rv = 1;
        if (devlist) {
            pr_err("In --incremental mode, a device cannot be given with --scan\n");
            break;
        }
        if (c.runstop <= 0) {
            pr_err("--incremental --scan meaningless without --run\n");
            break;
        }
        if (devmode == 'f') {
            pr_err("--incremental --scan --fail not supported\n");
            break;
        }
        rv = IncrementalScan(&c, NULL);
    }
    if (!devlist) {
        if (!rebuild_map && !c.scan) {
            pr_err("--incremental requires a device\n");
            rv = 1;
        }
break;
}
if (devmode == 'f') {
    if (devlist->next) {
        pr_err("--incremental --fail' can only handle one device.
");
        rv = 1;
        break;
    }
    rv = IncrementalRemove(devlist->devname, remove_path,
                           c.verbose);
} else
    rv = Incremental(devlist, &c, ss);
break;
case AUTODETECT:
    autodetect();
    break;
}
exit(rv);
}

static int scan_assemble(struct supertype *ss,
                         struct context *c,
                         struct mddev_ident *ident)
{
    struct mddev_ident *a, *array_list = conf_get_ident(NULL);
    struct mddev_dev *devlist = conf_get_devs();
    struct map_ent *map = NULL;
    int cnt = 0;
    int rv = 0;
    int failures, successes;

    if (conf_verify_devnames(array_list)) {
        pr_err("Duplicate MD device names in conf file were found.
");
        return 1;
    }
    if (devlist == NULL) {
        pr_err("No devices listed in conf file were found.
");
        return 1;
    }
    for (a = array_list; a ; a = a->next) {
        a->assembled = 0;
        if (a->autof == 0)
            a->autof = c->autof;
        }
    if (map_lock(&map))
        pr_err("failed to get exclusive lock on mapfile\n");
    do {
        failures = 0;
successes = 0;
rv = 0;
for (a = array_list; a ; a = a->next) {
    int r;
    if (a->assembled)
        continue;
    if (a->devname &&
        strcasecmp(a->devname, "<ignore>") == 0)
        continue;
    r = Assemble(ss, a->devname,
                 a, NULL, c);
    if (r == 0) {
        a->assembled = 1;
        successes++;
    } else
        failures++;
    rv |= r;
    cnt++;
}
} while (failures && successes);
if (c->homehost && cnt == 0) {
    /* Maybe we can auto-assemble something.
    * Repeatedly call Assemble in auto-assemble mode
    * until it fails
    */
    int rv2;
    int acnt;
    ident->autof = c->autof;
    do {
        struct mddev_dev *devlist = conf_get_devs();
        acnt = 0;
        do {
            rv2 = Assemble(ss, NULL,
                           ident,
                           devlist, c);
            if (rv2 == 0) {
                cnt++;
                acnt++;
            }
        } while (rv2 != 2);
        /* Incase there are stacked devices, we need to go around again */
    } while (acnt);
    if (cnt == 0 && rv == 0) {
        pr_err("No arrays found in config file or automatically\n");
        rv = 1;
    } else if (cnt)
        rv = 0;
} else if (cnt == 0 && rv == 0) {
    pr_err("No arrays found in config file\n");
    rv = 1;
}
map_unlock(&map);
return rv;
}

static int misc_scan(char devmode, struct context *c)
{
    /* apply --detail or --wait-clean to
     * all devices in /proc/mdstat
     */
    struct mdstat_ent *ms = mdstat_read(0, 1);
    struct mdstat_ent *e;
    struct map_ent *map = NULL;
    int members;
    int rv = 0;

    for (members = 0; members <= 1; members++) {
        for (e=ms ; e ; e=e->next) {
            char *name = NULL;
            struct map_ent *me;
            struct stat stb;
            int member = e->metadata_version &&
                strncmp(e->metadata_version,
                      "external:/", 10) == 0;
            if (members != member)
                continue;
            me = map_by_devnm(&map, e->devnm);
            if (me && me->path &&
                strcmp(me->path, "/unknown") != 0)
                name = me->path;
            if (name == NULL || stat(name, &stb) != 0)
                name = get_md_name(e->devnm);

            if (!name) {
                pr_err(\"cannot find device file for \%s\n\", e->devnm);
                continue;
            }
            if (devmode == 'D')
                rv |= Detail(name, c);
            else
                rv |= WaitClean(name, -1, c->verbose);
            put_md_name(name);
        }
    }
}
free_mdstat(ms);
return rv;
}

static int stop_scan(int verbose)
{

    /* apply --stop to all devices in /proc/mdstat */
    /* Due to possible stacking of devices, repeat until
     * nothing more can be stopped
     */
    int progress=1, err;
    int last = 0;
    int rv = 0;
    do {
        struct mdstat_ent *ms = mdstat_read(0, 0);
        struct mdstat_ent *e;

        if (!progress) last = 1;
        progress = 0; err = 0;
        for (e=ms ; e ; e=e->next) {
            char *name = get_md_name(e->devnm);
            int mdfd;

            if (!name) {
                pr_err("cannot find device file for %s\n", e->devnm);
                continue;
            }
            mdfd = open_mddev(name, 1);
            if (mdfd >= 0) {
                if (Manage_stop(name, mdfd, verbose, !last))
                    err = 1;
                else
                    progress = 1;
            }
            close(mdfd);
            put_md_name(name);
        }
        free_mdstat(ms);
    } while (!last && err);
    if (err)
        rv |= 1;
    return rv;
}

static int misc_list(struct mddev_dev *devlist,
    struct mddev_ident *ident,
char *dump_directory,
    struct supertype *ss, struct context *c)
{
    struct mddev_dev *dv;
    int rv = 0;

    for (dv=devlist ; dv; dv=(rv & 16) ? NULL : dv->next) {
        int mdfd;

        switch(dv->disposition) {
        case 'D':
            rv |= Detail(dv->devname, c);
            continue;
        case KillOpt: /* Zero superblock */
            if (ss)
                rv |= Kill(dv->devname, ss, c->force, c->verbose,0);
            else {
                int v = c->verbose;
                do {
                    rv |= Kill(dv->devname, NULL, c->force, v, 0);
                    v = -1;
                } while (rv == 0);
                rv &= ~2;
            }
            continue;
        case 'Q':
            rv |= Query(dv->devname); continue;
        case 'X':
            rv |= ExamineBitmap(dv->devname, c->brief, ss); continue;
        case ExamineBB:
            rv |= ExamineBadblocks(dv->devname, c->brief, ss); continue;
        case 'W':
            case WaitOpt:
                rv |= Wait(dv->devname); continue;
            case Waitclean:
                rv |= WaitClean(dv->devname, -1, c->verbose); continue;
            case KillSubarray:
                rv |= Kill_subarray(dv->devname, c->subarray, c->verbose);
                continue;
            case UpdateSubarray:
                if (c->update == NULL) {
                    pr_err("-U/--update must be specified with --update-subarray\n");
                    rv |= 1;
                }
                continue;
            }
            if (c->update == NULL) {
                pr_err("-U/--update must be specified with --update-subarray\n");
                rv |= 1;
            }
            continue;
        case KillSubarray:
            rv |= Kill_subarray(dv->devname, c->subarray, c->verbose);
            continue;
        case UpdateSubarray:
            if (c->update == NULL) {
                pr_err("-U/--update must be specified with --update-subarray\n");
                rv |= 1;
            }
            continue;
        }
        rv |= Update_subarray(dv->devname, c->subarray,
            c->update, ident, c->verbose);
        continue;
case Dump:
rv |= Dump_metadata(dv->devname, dump_directory, c, ss);
continue;
case Restore:
rv |= Restore_metadata(dv->devname, dump_directory, c, ss,  
(dev == devlist && dv->next == NULL));
continue;
case Action:
rv |= SetAction(dv->devname, c->action);
continue;
}
if (dv->devname[0] == '/')
mdfd = open_mddev(dv->devname, 1);
else {
mdfd = open_dev(dv->devname);
if (mdfd < 0)
pr_err("Cannot open %s
", dv->devname);
}
if (mdfd>=0) {
switch(dv->disposition) {
case 'R':
c->runstop = 1;
rv |= Manage_run(dv->devname, mdfd, c); break;
case 'S':
rv |= Manage_stop(dv->devname, mdfd, c->verbose, 0); break;
case 'o':
rv |= Manage_ro(dv->devname, mdfd, 1); break;
case 'w':
rv |= Manage_ro(dv->devname, mdfd, -1); break;
}
close(mdfd);
} else
rv |= 1;
}
return rv;

int SetAction(char *dev, char *action)
{
int fd = open(dev, O_RDONLY);
struct mdinfo mdi;
if (fd < 0) {
pr_err("Couldn't open %s: %s\n", dev, strerror(errno));
return 1;
}
sysfs_init(&mdi, fd, NULL);
close(fd);
if (!mdi.sys_name[0]) {
Open Source Used In Callisto_PSIRT 1.3.2 2466
pr_err("%s is no an md array\n", dev);
    return 1;
}

if (sysfs_set_str(&mdi, NULL, "sync_action", action) < 0) {
    pr_err("Count not set action for %s to %s: %s\n", 
        dev, action, strerror(errno));
    return 1;
}
return 0;
}

1.229 libpcre 8.42 r0
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1.230 opkg-arch-config 1.0 r1
1.231 usbutils 010 r0

1.232 monit 5.14 2

1.232.1 Available under license:

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1.233 json-c 0.13.1 r0

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1.234 netkit-rsh 0.17 r0

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1.237 iputils s20180629 r0

1.238 lvm2 2.02.180 r0

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 * along with this program; if not, write to the Free Software Foundation,
 * Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 */

/*
 * Coverity usage:
 *
 * translate model into xml
 * cov-make-library -of coverity_model.xml coverity_model.c
 *
 * compile (using outdir 'cov'):
 * cov-build --dir=cov make CC=gcc
 *
 * analyze (agressively, using 'cov')
 * cov-analyze --dir cov --wait-for-license --hfa --concurrency --enable-fpnr --enable-constraint-fpp --security --all --
 * aggressiveness-level=high --field-offset-escape --user-model-file=coverity/coverity_model.xml
 *
 * generate html output (to 'html' from 'cov'):
 * cov-format-errors --dir cov --html-output html
 */

struct lv_segment;
struct logical_volume;

struct lv_segment *first_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}
struct lv_segment *last_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "STRING";
}

struct logical_volume *origin_from_cow(const struct logical_volume *lv)
{
    if (lv)
        return lv;
    __coverity_panic__();
}

/* simple_memccpy() from glibc */
void *memccpy(void *dest, const void *src, int c, size_t n)
{
    const char *s = src;
    char *d = dest;

    while (n-- > 0)
    if ((*d++ = *s++) == (char) c)
        return d;

    return 0;
}

/*
 * 2 lines below needs to be placed in coverity/config/user_nodefs.h
 * Not sure about any other way.
 * Without them, coverity shows warning since x86 system header files
 * are using inline assembly to reset fdset
 */
//#nodef FD_ZERO model_FD_ZERO
//void model_FD_ZERO(void *fdset);

void model_FD_ZERO(void *fdset)
{
    unsigned i;

    for (i = 0; i < 1024 / 8 / sizeof(long); ++i)
        ((long*)fdset)[i] = 0;
int *__errno_location(void)
{
}

const unsigned short **__ctype_b_loc(void)
{
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}

const char *find_config_tree_str_allow_empty(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}

const struct dm_config_node *find_config_tree_array(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;
    return cn;
}

/*
* Resent Coverity reports quite weird errors... */
const struct dm_config_node;
const struct dm_config_node *find_config_tree_array(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}
const struct dm_config_node *find_config_tree_node(struct cmd_context *cmd, int id, struct profile *profile) {
    const struct dm_config_node *cn;

    return cn;
}

int find_config_tree_bool(struct cmd_context *cmd, int id, struct profile *profile) {
    int b;

    return b;
}

/*

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1.240 curl 7.66.0 r0
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===============

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Initialize empty image
f1c9645dbd14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e3d12d6c2d0f55067c18f2f9 bsd.img

---layout-------
Disk <removed>: 10 MiB, 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
Disklabel type: dos
Disk identifier: <removed>

----------------------
Create 1st primary partition
ada64ace122978d00d11c0e5ee45d26 bsd.img

---layout-------
Disk <removed>: 10 MiB, 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
Disklabel type: dos
Disk identifier: <removed>

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Id</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;1</td>
<td>2048</td>
<td>4095</td>
<td>2048</td>
<td>1M</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
</tbody>
</table>

Create 2nd primary partition

1bebf87248e0566e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8ddf51a88a045db233418dd73fbe bsd.img

---layout--------

Device Boot Start End Sectors Size Id Type
<removed>1       2048  4095    2048   1M 83 Linux

Create default BSD

2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
Disk identifier: <removed>
Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Welcome to fdisk <removed>. Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a  4096  6144    2049    1M 4.2BSD       0     0   0
c  4096 20479   16384    8M unused       0     0   0
d  0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

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):
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

Command (m for help):
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1.245 diffutils 3.6 r0

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1.255 inotify-tools 3.14 r0

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rJ ==vnnnn8[8]> 8 xxs""""> 8 """"UUUUUU >PP
>0~0~0~0~8'~>0~<1[I[l][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0]}
### PC Screen (console) Fonts - psf1 header

0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
3byte8x%d

### PC Screen (console) Fonts - psf2 header

0 lelong0x864ab572 psf2 screen font data
>12 lelong & 1 864ab572
>24 lelong 512 characters, Unicode index
>28 lelong %dx
>32 lelong %d glyphs

---

```
rm
```

---

```c
rm
```
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1.263 libnss-nis 3.0 r0
1.264 Ilvm-project-source 4.0.0 r0

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1.265 openssh 7.8p1+git r0

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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
#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 POLLRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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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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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
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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 */
1.266 acpid 2.0.30 r0

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

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1.267 kmod 25 r0

1.268 python-pygobject 3.28.3 r0

1.268.1 Available under license:

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Version 2.1, February 1999

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@end enumerate

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

That's all there is to it!
/* Native-dependent code for modern AMD64 BSD's. 

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along with this program. If not, see <http://www.gnu.org/licenses/>. */

#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache, 
int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache, 
int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override 
{ amd64bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override 
{ amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
BEGIN{
FS="";
FS="\"; 
print "/* ==> Do not modify this file!! -*- buffer-read-only: t -*- vi\" 
". *- buffer-read-only: t -*- vi\" 

Open Source Used In Callisto_PSIRT 1.3.2 2792
".set ro:"
print "  It is created automatically by copying.awk:"
print "  Modify copying.awk instead. <= */*
print ""
print "]/include "defs.h"
print "]/include "command.h"
print "]/include "gdbcmd.h"
print ""
print "static void show_copying_command (const char *, int);"
print ""
print "static void show_warranty_command (const char *, int);"
print ""
print "static void":
print "show_copying_command (const char *ignore, int from_tty):"
print "{";
}
NR == 1; /^\[[ \t\]*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
{
  printf "  printf_filtered ("\n\n\n);\n"
}
else if ($0 !~ /^\[[ \t\]*15\. Disclaimer of Warranty\[ ]*$/)
{
  printf "  printf_filtered ("\n"
for (i = 1; i < NF; i++)
printf "%s\", $i;
  printf "%s\n\n\n", $NF;
}
} /^\[ ]*15\. Disclaimer of Warranty\[ ]*$/
print "]":
print "\n"
print "static void":
print "show_warranty_command (const char *ignore, int from_tty):"
print "{";
}
/^\[ ]*15\. Disclaimer of Warranty\[ ]*$/ END
if (! ($0 ~ /^\[ ]*END OF TERMS AND CONDITIONS\[ ]*$/)
{
  printf "  printf_filtered ("\n"
for (i = 1; i < NF; i++)
printf "%s\", $i;
  printf "%s\n\n\n", $NF;
}
} END{
print "]":
print "\n";
print "void"
print "_initialize_copying (void)";
print "{";
print " add_cmd ("copying", no_set_class, show_copying_command, ");
print " ("Conditions for redistributing copies of GDB.");
print " &showlist);";
print " add_cmd ("warranty", no_set_class, show_warranty_command, ");
print " ("Various kinds of warranty you do not have.");
print " &showlist);";
print "}";
print " /* For old-timers, allow "info copying", etc. */;
print " add_info ("copying", show_copying_command, ");
print " ("Conditions for redistributing copies of GDB.");
print " add_info ("warranty", show_warranty_command, ");
print " ("Various kinds of warranty you do not have.");
print " }";
}

/* BSD Kernel Data Access Library (libkvm) interface. */

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along with this program. If not, see <http://www.gnu.org/licenses/>. */

#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h" /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include "kvm.h"
#ifndef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#ifndef HAVE_SYS_USER_H
#include <sys/user.h>
#endif
#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
 register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
target currently doesn't export any view of the running processes,
so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */
static const target_info bsd_kvm_target_info = {
    "kvm",
    N_("Kernel memory interface"),
    N_("Use a kernel virtual memory image as a target.
     Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public target_ops
{
public:
    bsd_kvm_target ()
    { this->to_stratum = process_stratum; }

    const target_info &info () const override
{ return bsd_kvm_target_info; }

void close () override;

void fetch_registers (struct regcache *, int) override;
enum target_xfer_status xfer_partial (enum target_object object,
const char *annex,
gdb_byte *readbuf,
const gdb_byte *writebuf,
ULONGEST offset, ULONGEST len,
ULONGEST *xfered_len) override;

void files_info () override;
bool thread_alive (ptid_t ptid) override;
const char *pid_to_str (ptid_t) override;

bool has_memory () override { return true; }
bool has_stack () override { return true; }
bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
    char errbuf[_POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

    target_preopen (from_tty);

    if (arg)
    {
        char *temp;

        filename = tilde_expand (arg);
        if (filename[0] != '/')
        {
            temp = concat (current_directory, "/", filename, (char *)NULL);
xfree (filename);
        }
        filename = temp;
    }

    execfile = get_exec_file (0);
temp_kd = kvm_openfiles (execfile, filename, NULL,
write_files ? O_RDWR : O_RDONLY, errbuf);
if (temp_kd == NULL)
    error ("%s", errbuf);

bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
            warning ("%s", kvm_geterr(core_kd));
        core_kd = NULL;
    }

    inferior_ptid = null_ptid;
discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
        gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
const char *annex, gdb_byte *readbuf,
const gdb_byte *writebuf,
ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
switch (object)
{
    case TARGET_OBJECT_MEMORY:
    {
      LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);
      if (ret < 0)
        return TARGET_XFER_E_IO;
      else if (ret == 0)
        return TARGET_XFER_EOF;
      else
      {
        *xfered_len = (ULONGEST) ret;
        return TARGET_XFER_OK;
      }
    }
    default:
    return TARGET_XFER_E_IO;
  }
}

void
bsd_kvm_target::files_info()
{
  if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
    printf_filtered (_("Using the kernel crash dump %s\n"),
                   bsd_kvm_corefile);
  else
    printf_filtered (_("Using the currently running kernel\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
  struct pcb pcb;

  if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
    error ("%s", kvm_geterr (core_kd));

  gdb_assert (bsd_kvm_supply_pcb);
  return bsd_kvm_supply_pcb (regcache, &pcb);
void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];

    if (bsd_kvm_paddr)
    {
        bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
        return;
    }

/* On dumping core, BSD kernels store the faulting context (PCB) in the variable "dumppcb". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_dumppcb";

    if (kvm_nlist (core_kd, nl) == -1)
        error ("%s", kvm_geterr (core_kd));

    if (nl[0].n_value != 0)
    {
        /* Found dumppcb. If it contains a valid context, return immediately. */
        if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
            return;
    }

/* Traditional BSD kernels have a process proc0 that should always be present. The address of proc0's PCB is stored in the variable "proc0paddr". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

    if (kvm_nlist (core_kd, nl) == -1)
        error ("%s", kvm_geterr (core_kd));

    if (nl[0].n_value != 0)
    {
        struct pcb *paddr;

        /* Found proc0paddr. */
        if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
            error ("%s", kvm_geterr (core_kd));

        bsd_kvm_fetch_pcb (regcache, paddr);
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error (("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ??? Should this become an alias for "target kvm"? */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{

#endif
CORE_ADDR addr;

if (arg == NULL)
    error_no_arg ("proc address");

if (core_kd == NULL)
    error ("No kernel memory image.");

addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
#else
    addr += offsetof (struct proc, p_addr);
#endif

if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
    error ("%s");
    kvm_geterr (core_kd);

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
    if (arg == NULL)
        /* i18n: PCB == "Process Control Block". */
        error_no_arg ("pcb address");

    if (core_kd == NULL)
        error ("No kernel memory image.");

    bsd_kvm_paddr = (struct pcb *) (u_long) parse_and_eval_address (arg);

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
const char *
bson_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
    xsnprintf (buf, sizeof buf, "<kvm>");
    return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("Generic command for manipulating the kernel memory interface."),
                     &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

    #ifndef HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
             _("Set current context from proc address"), &bsd_kvm_cmdlist);
    #endif
    add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
             /* i18n: PCB == "Process Control Block". */
             _("Set current context from pcb address"), &bsd_kvm_cmdlist);

    /* Some notes on the ptid usage on this target.

    The pid field represents the kvm inferior instance. Currently,
    we don't support multiple kvm inferiors, but we start at 1
    anyway. The lwp field is set to != 0, in case the core wants to
    refer to the whole kvm inferior with ptid(1,0,0).

    If kvm is made to export running processes as gdb threads,
    the following form can be used:
    ptid (1, 1, 0) -> kvm inferior 1, in kernel
    ptid (1, 1, 1) -> kvm inferior 1, process 1
    ptid (1, 1, 2) -> kvm inferior 1, process 2
    ptid (1, 1, n) -> kvm inferior 1, process n */
bsd_kvm_ptid = ptid_t (1, 1, 0);
}
/* Native-dependent code for x86 BSD's.

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#endif /* X86_BSD_NAT_H */
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;
    public:
#ifndef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
#endif /* HAVE_PT_GETDBREGS */
};
#endif /* x86-bsd-nat.h */

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Public License instead of this License. But first, please read

/* Native-dependent code for modern i386 BSD's.*/

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
                        int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
                        int regnum);
/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
  void fetch_registers (struct regcache *regcache, int regnum) override
  { i386bsd_fetch_inferior_registers (regcache, regnum); }

  void store_registers (struct regcache *regcache, int regnum) override
  { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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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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a) Accompany the work with the complete corresponding
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Appendix: How to Apply These Terms to Your New Libraries

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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!
#!/usr/bin/env python

# Copyright (C) 2011-2018 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
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===copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x \^\.c -x \^\.cc -x \^\.h -x \^\.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

==
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
# Perform the update, and save the output in a string.
update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                     stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

    def may_have_copyright_notice(filename):
        """Check that the given file does not seem to have a copyright notice.

        The filename is relative to the root directory.
        This function assumes that the current working directory is that root
directory.

        The algorithm is fairly crude, meaning that it might return
        some false positives. I do not think it will return any false
        negatives... We might improve this function to handle more
        complex cases later...
        """
        
        if filename.startswith("Copyright") or filename.startswith("Copyright")
        # For now, it may have a copyright notice if we find the word
        # "Copyright" at the (reasonable) start of the given file, say
        # 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
if lineno > 50:
    return False
return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...

    if MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("\033[31m"
              "REMINDER: Multiple copyright headers must be updated by hand:"
              "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BYHAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
              "\033[0m"
        for filename in BYHAND:
            print " ", filename

    #####################################################################
    #
    # Some constants, placed at the end because they take up a lot of room.
    # The actual value of these constants is not significant to the understanding
    # of the script.
    #
    #####################################################################
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/nat/glibc_thread_db.h',  
    'gdb/CONTRIBUTE',  
    'gdb/gnulib/import'  
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
    # Nothing at the moment :-).  
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
    "gdb/gdbarch.sh",  
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb.gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
)
"sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
"sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
"sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
"sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-accfp.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-decode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_idle.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/decode.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h"
if __name__ == '__main__':
    main()

1.274 bc 1.07.1 r0
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1.275 libxml-parser-perl 2.44 r0
1.276 screen 4.6.2 r0

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Gocheck - A rich testing framework for Go

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1.283 opkg 0.3.6 r0

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/* Utility functions for writing WARC files.
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grants you additional permission to convey the resulting work. Corresponding Source for a non-source form of such a combination shall include the source code for the parts of OpenSSL used as well as that of the covered work. */

#include "wget.h"
#include "hash.h"
#include "utils.h"
#include "version.h"
#include "dirname.h"
#include "url.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <tmpdir.h>
#include <sha1.h>
#include <base32.h>
#include <unistd.h>
#ifdef HAVE_LIBZ
#include <zlib.h>
#endif

define HAVE_LIBUUID
#include <uuid/uuid.h>
#elif HAVE_UUID_CREATE
#include <uuid.h>
#endif

#include "warc.h"
#include "exits.h"

#ifndef O_TEMPORARY
#define O_TEMPORARY 0
#endif

#include "warc.h"
#include "exits.h"

/* The log file (a temporary file that contains a copy
of the wget log). */
static FILE *warc_log_fp;

/* The manifest file (a temporary file that contains the
   warcinfo uuid of every file in this crawl). */
static FILE *warc_manifest_fp;

/* The current WARC file (or NULL, if WARC is disabled). */
static FILE *warc_current_file;

#if defined HAVE_LIBZ
/* The gzip stream for the current WARC file
   (or NULL, if WARC or gzip is disabled). */
static gzFile warc_current_gzfile;

/* The offset of the current gzip record in the WARC file. */
static off_t warc_current_gzfile_offset;

/* The uncompressed size (so far) of the current record. */
static off_t warc_current_gzfile_uncompressed_size;
#endif

/* This is true until a warc_write_* method fails. */
static bool warc_write_ok;

/* The current CDX file (or NULL, if CDX is disabled). */
static FILE *warc_current_cdx_file;

/* The record id of the warcinfo record of the current WARC file. */
static char warc_current_warcinfo_uuid_str[48];

/* The file name of the current WARC file. */
static char *warc_current_filename;

/* The serial number of the current WARC file. This number is
   incremented each time a new file is opened and is used in the
   WARC file's filename. */
static int warc_current_file_number;

/* The table of CDX records, if deduplication is enabled. */
static struct hash_table * warc_cdx_dedup_table;

static bool warc_start_new_file (bool meta);

struct warc_cdx_record
{
    char *url;

char *uuid;
char digest[SHA1_DIGEST_SIZE];

static unsigned long
warc_hash_sha1_digest (const void *key)
{
    /* We just use some of the first bytes of the digest. */
    unsigned long v = 0;
    memcpy (&v, key, sizeof (unsigned long));
    return v;
}

static int
warc_cmp_sha1_digest (const void *digest1, const void *digest2)
{
    return !memcmp (digest1, digest2, SHA1_DIGEST_SIZE);
}

/* Writes SIZE bytes from BUFFER to the current WARC file,
   through gzwrite if compression is enabled.
   Returns the number of uncompressed bytes written. */
static size_t
warc_write_buffer (const char *buffer, size_t size)
{
#ifdef HAVE_LIBZ
    if (warc_current_gzfile)
    {
        warc_current_gzfile_uncompressed_size += size;
        return gzwrite (warc_current_gzfile, buffer, size);
    }
#else
    return fwrite (buffer, 1, size, warc_current_file);
#endif
}

/* Writes STR to the current WARC file.
   Returns false and set warc_write_ok to false if there
   is an error. */
static bool
warc_write_string (const char *str)
{
    size_t n;

    if (!warc_write_ok)
        return false;
n = strlen (str);
if (n != warc_write_buffer (str, n))
    warc_write_ok = false;

return warc_write_ok;
}

#define EXTRA_GZIP_HEADER_SIZE 14
#define GZIP_STATIC_HEADER_SIZE 10
#define FLG_FEXTRA          0x04
#define OFF_FLG             3

/* Starts a new WARC record. Writes the version header.
   If opt.warc_maxsize is set and the current file is becoming
   too large, this will open a new WARC file.

   If compression is enabled, this will start a new
gzip stream in the current WARC file.

   Returns false and set warc_write_ok to false if there
   is an error. */
static bool
warc_write_start_record (void)
{
    if (!warc_write_ok)
        return false;

    fflush (warc_current_file);
    if (opt.warc_maxsize > 0 && ftello (warc_current_file) >= opt.warc_maxsize)
        warc_start_new_file (false);

#ifdef HAVE_LIBZ
    /* Start a GZIP stream, if required. */
    if (opt.warc_compression_enabled)
    {
        /* Record the starting offset of the new record. */
        warc_current_gzfile_offset = ftello (warc_current_file);

        /* Reserve space for the extra GZIP header field.
           In warc_write_end_record we will fill this space
           with information about the uncompressed and
           compressed size of the record. */
        fseek (warc_current_file, EXTRA_GZIP_HEADER_SIZE, SEEK_CUR);
        fflush (warc_current_file);

        /* Start a new GZIP stream. */
warc_current_gzfile = gzdopen (dup (fileno (warc_current_file)), "wb9");
warc_current_gzfile_uncompressed_size = 0;

if (warc_current_gzfile == NULL)
{
    logprintf (LOG_NOTQUIET, _("Error opening GZIP stream to WARC file:\n"));
    warc_write_ok = false;
    return false;
}

#endif

warc_write_string ("WARC/1.0\r\n");
return warc_write_ok;

/* Writes a WARC header to the current WARC record.
   This method may be run after warc_write_start_record and
   before warc_write_block_from_file. */
static bool
warc_write_header (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": ");
        warc_write_string (value);
        warc_write_string ("\r\n");
    }
    return warc_write_ok;
}

/* Writes a WARC header with a URI as value to the current WARC record.
   This method may be run after warc_write_start_record and
   before warc_write_block_from_file. */
static bool
warc_write_header_uri (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": <");
        warc_write_string (value);
        warc_write_string (">\r\n");
    }
    return warc_write_ok;
}
/* Copies the contents of DATA_IN to the WARC record.
   Adds a Content-Length header to the WARC record.
   Run this method after warc_write_header,
   then run warc_write_end_record. */
static bool
warc_write_block_from_file (FILE *data_in)
{
    /* Add the Content-Length header. */
    char content_length[MAX_INT_TO_STRING_LEN(off_t)];
    char buffer[BUFSIZ];
    size_t s;

    fseeko (data_in, 0L, SEEK_END);
    number_to_string (content_length, ftello (data_in));
    warc_write_header ("Content-Length", content_length);

    /* End of the WARC header section. */
    warc_write_string ("\r\n");

    if (fseeko (data_in, 0L, SEEK_SET) != 0)
        warc_write_ok = false;

    /* Copy the data in the file to the WARC record. */
    while (warc_write_ok && (s = fread (buffer, 1, BUFSIZ, data_in)) > 0)
    {
        if (warc_write_buffer (buffer, s) < s)
            warc_write_ok = false;
    }

    return warc_write_ok;
}

/* Run this method to close the current WARC record.

If compression is enabled, this method closes the
current GZIP stream and fills the extra GZIP header
with the uncompressed and compressed length of the
record. */
static bool
warc_write_end_record (void)
{
    warc_write_buffer ("\r\n\r\n", 4);

#if defined HAVE_LIBZ
    /* We start a new gzip stream for each record. */
    if (warc_write_ok && warc_current_gzfile)
    {

char extra_header[EXTRA_GZIP_HEADER_SIZE];
char static_header[GZIP_STATIC_HEADER_SIZE];
off_t current_offset, uncompressed_size, compressed_size;
size_t result;

if (gzclose (warc_current_gzfile) != Z_OK)
{
    warc_write_ok = false;
    return false;
}

fflush (warc_current_file);
ffseeko (warc_current_file, 0, SEEK_END);

/* The WARC standard suggests that we add 'skip length' data in the extra header field of the GZIP stream.

In warc_write_start_record we reserved space for this extra header. This extra space starts at warc_current_gzfile_offset and fills EXTRA_GZIP_HEADER_SIZE bytes. The static GZIP header starts at warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE.

We need to do three things:
1. Move the static GZIP header to warc_current_gzfile_offset;
2. Set the FEXTRA flag in the GZIP header;
3. Write the extra GZIP header after the static header, that is, starting at warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE.
*/

/* Calculate the uncompressed and compressed sizes. */
current_offset = ftello (warc_current_file);
uncompressed_size = current_offset - warc_current_gzfile_offset;
compressed_size = warc_current_gzfile_uncompressed_size;

/* Go back to the static GZIP header. */
ffseeko (warc_current_file, warc_current_gzfile_offset
                 + EXTRA_GZIP_HEADER_SIZE, SEEK_SET);

/* Read the header. */
result = fread (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);
if (result != GZIP_STATIC_HEADER_SIZE)
{
    warc_write_ok = false;
    return false;
}

/* Set the FEXTRA flag in the flags byte of the header. */
static_header[OFF_FLG] = static_header[OFF_FLG] | FLG_FEXTRA;

/* Write the header back to the file, but starting at
   warc_current_gzfile_offset. */
fseeko (warc_current_file, warc_current_gzfile_offset, SEEK_SET);
fwrite (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);

/* Prepare the extra GZIP header. */
/* XLEN, the length of the extra header fields. */
extra_header[0] = ((EXTRA_GZIP_HEADER_SIZE - 2) & 255);
extra_header[1] = ((EXTRA_GZIP_HEADER_SIZE - 2) >> 8) & 255;
/* The extra header field identifier for the WARC skip length. */
extra_header[2] = 's';
extra_header[3] = 'I';
/* The size of the field value (8 bytes). */
extra_header[4] = (8 & 255);
extra_header[5] = (8 >> 8) & 255;
/* The size of the uncompressed record. */
extra_header[6] = (uncompressed_size & 255);
extra_header[7] = (uncompressed_size >> 8) & 255;
extra_header[8] = (uncompressed_size >> 16) & 255;
extra_header[9] = (uncompressed_size >> 24) & 255;
/* The size of the compressed record. */
extra_header[10] = (compressed_size & 255);
extra_header[12] = (compressed_size >> 16) & 255;
extra_header[13] = (compressed_size >> 24) & 255;

/* Write the extra header after the static header. */
fseeko (warc_current_file, warc_current_gzfile_offset
       + GZIP_STATIC_HEADER_SIZE, SEEK_SET);
fwrite (extra_header, 1, EXTRA_GZIP_HEADER_SIZE, warc_current_file);

/* Done, move back to the end of the file. */
fflush (warc_current_file);
fseeko (warc_current_file, 0, SEEK_END);
}
#endif /* HAVE_LIBZ */

return warc_write_ok;

/* Writes the WARC-Date header for the given timestamp to
   the current WARC record.
   If timestamp is NULL, the current time will be used. */
static bool warc_write_date_header (const char *timestamp)
char current_timestamp[21];

return warc_write_header("WARC-Date", timestamp ? timestamp :
    warc_timestamp (current_timestamp, sizeof(current_timestamp)));
}

/* Writes the WARC-IP-Address header for the given IP to
the current WARC record. If IP is NULL, no header will
be written. */
static bool
warc_write_ip_header (const ip_address *ip)
{
if (ip != NULL)
    return warc_write_header("WARC-IP-Address", print_address (ip));
else
    return warc_write_ok;
}

/* warc_sha1_stream_with_payload is a modified copy of sha1_stream
from gnu/lib/sha1.c. This version calculates two digests in one go.

Compute SHA1 message digests for bytes read from STREAM. The
digest of the complete file will be written into the 16 bytes
beginning at RES_BLOCK.

If payload_offset >= 0, a second digest will be calculated of the
portion of the file starting at payload_offset and continuing to
the end of the file. The digest number will be written into the
16 bytes beginning ad RES_PAYLOAD. */
static int
warc_sha1_stream_with_payload (FILE *stream, void *res_block, void *res_payload,
    off_t payload_offset)
{
#define BLOCKSIZE 32768

    struct sha1_ctx ctx_block;
    struct sha1_ctx ctx_payload;
    off_t pos;
    off_t sum;

    char *buffer = xmalloc (BLOCKSIZE + 72);

    /* Initialize the computation context. */
    sha1_init_ctx (&ctx_block);
    if (payload_offset >= 0)
        sha1_init_ctx (&ctx_payload);

    /* Open Source Used In Callisto_PSIRT 1.3.2  2992 */
pos = 0;

/* Iterate over full file contents. */
while (1)
{
  /* We read the file in blocks of BLOCKSIZE bytes. One call of the
   computation function processes the whole buffer so that with the
   next round of the loop another block can be read. */
  off_t n;
  sum = 0;

  /* Read block. Take care for partial reads. */
  while (1)
  {
    n = fread (buffer + sum, 1, BLOCKSIZE - sum, stream);
    sum += n;
    pos += n;
    if (sum == BLOCKSIZE)
      break;
    if (n == 0)
    {
      /* Check for the error flag IFF N == 0, so that we don't
       exit the loop after a partial read due to e.g., EAGAIN
       or EWOULDBLOCK. */
      if (ferror (stream))
        {
          xfree (buffer);
          return 1;
        }
      goto process_partial_block;
    }
    /* We've read at least one byte, so ignore errors. But always
     check for EOF, since feof may be true even though N > 0.
     Otherwise, we could end up calling fread after EOF. */
    if (feof (stream))
      goto process_partial_block;
  }

  /* Process buffer with BLOCKSIZE bytes. Note that
   BLOCKSIZE % 64 == 0 */
  sha1_process_block (buffer, BLOCKSIZE, &ctx_block);
  if (payload_offset >= 0 && payload_offset < pos)
{
  /* At least part of the buffer contains data from payload. */
  off_t start_of_payload = payload_offset - (pos - BLOCKSIZE);
  if (start_of_payload <= 0)
    /* All bytes in the buffer belong to the payload. */
    start_of_payload = 0;

  /* Process the payload part of the buffer.
   Note: we can't use sha1_process_block here even if we
   process the complete buffer. Because the payload doesn't
   have to start with a full block, there may still be some
   bytes left from the previous buffer. Therefore, we need
   to continue with sha1_process_bytes. */
  sha1_process_bytes (buffer + start_of_payload,
                      BLOCKSIZE - start_of_payload, &ctx_payload);
}
}

process_partial_block:

  /* Process any remaining bytes. */
  if (sum > 0)
  {
    sha1_process_bytes (buffer, sum, &ctx_block);
    if (payload_offset >= 0 && payload_offset < pos)
    {
      /* At least part of the buffer contains data from payload. */
      off_t start_of_payload = payload_offset - (pos - sum);
      if (start_of_payload <= 0)
        /* All bytes in the buffer belong to the payload. */
        start_of_payload = 0;

      /* Process the payload part of the buffer. */
      sha1_process_bytes (buffer + start_of_payload,
                          sum - start_of_payload, &ctx_payload);
    }
  }

  /* Construct result in desired memory. */
  sha1_finish_ctx (&ctx_block, res_block);
  if (payload_offset >= 0)
    sha1_finish_ctx (&ctx_payload, res_payload);
  xfree (buffer);
  return 0;

#undef BLOCKSIZE
}
static char *
warc_base32_sha1_digest (const char *sha1_digest, char *sha1_base32, size_t sha1_base32_size)
{
    if (sha1_base32_size >= BASE32_LENGTH(SHA1_DIGEST_SIZE) + 5 + 1)
    {
        memcpy (sha1_base32, "sha1:", 5);
        base32_encode (sha1_digest, SHA1_DIGEST_SIZE, sha1_base32 + 5,
                       sha1_base32_size - 5);
    }
    else
        *sha1_base32 = 0;

    return sha1_base32;
}

/* Sets the digest headers of the record. 
 * This method will calculate the block digest and, if payload_offset >= 0,
 * will also calculate the payload digest of the payload starting at the
 * provided offset. */
static void
warc_write_digest_headers (FILE *file, long payload_offset)
{
    if (opt.warc_digests_enabled)
    {
        /* Calculate the block and payload digests. */
        char sha1_res_block[SHA1_DIGEST_SIZE];
        char sha1_res_payload[SHA1_DIGEST_SIZE];

        rewind (file);
        if (warc_sha1_stream_with_payload (file, sha1_res_block,
                                            sha1_res_payload, payload_offset) == 0)
        {
            char digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];

            warc_write_header ("WARC-Block-Digest",
                               warc_base32_sha1_digest (sha1_res_block, digest, sizeof(digest)));

            if (payload_offset >= 0)
                warc_write_header ("WARC-Payload-Digest",
                                   warc_base32_sha1_digest (sha1_res_payload, digest, sizeof(digest)));
        }
    }
/* Fills timestamp with the current time and date.
The UTC time is formatted following ISO 8601, as required
for use in the WARC-Date header.
The timestamp will be 21 characters long. */
char *
warc_timestamp (char *timestamp, size_t timestamp_size)
{
    time_t rawtime = time (NULL);
    struct tm * timeinfo = gmtime (&rawtime);

    if (strftime (timestamp, timestamp_size, "%Y-%m-%dT%H:%M:%SZ", timeinfo) == 0 && timestamp_size > 0)
        *timestamp = 0;
    return timestamp;
}

/* Fills urn_str with a UUID in the format required
for the WARC-Record-Id header.
The string will be 47 characters long. */
#if HAVE_LIBUUID
void
warc_uuid_str (char *urn_str)
{
    char uuid_str[37];
    uuid_t record_id;

    uuid_generate (record_id);
    uuid_unparse (record_id, uuid_str);
    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
}
#elif HAVE_UUID_CREATE
void
warc_uuid_str (char *urn_str)
{
    char *uuid_str;
    uuid_t record_id;

    uuid_create (&record_id, NULL);
    uuid_to_string (&record_id, &uuid_str, NULL);
    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
    xfree (uuid_str);
}
#else
#define RPC_ENTRY * RpcCreateProc (RPC_HANDLE, UUID *)
typedef RPC_STATUS (RPC_ENTRY * RpcCreateProc) (UUID *);
typedef RPC_STATUS (RPC_ENTRY * UuidToString_proc) (UUID *, unsigned char **);
typedef RPC_STATUS (RPC_ENTRY * RpcStringFree_proc) (unsigned char **);

static int
windows_uuid_str (char *urn_str)
{
    static UuidCreate_proc pfn_UuidCreate = NULL;
    static UuidToString_proc pfn_UuidToString = NULL;
    static RpcStringFree_proc pfn_RpcStringFree = NULL;
    static int rpc_uuid_avail = -1;

    /* Rpcrt4.dll is not available on older versions of Windows, so we
     * need to test its availability at run time. */
    if (rpc_uuid_avail == -1)
    {
        HMODULE hm_rpcrt4 = LoadLibrary ("Rpcrt4.dll");

        if (hm_rpcrt4)
        {
            pfn_UuidCreate =
                (UuidCreate_proc) GetProcAddress (hm_rpcrt4, "UuidCreate");
            pfn_UuidToString =
                (UuidToString_proc) GetProcAddress (hm_rpcrt4, "UuidToStringA");
            pfn_RpcStringFree =
                (RpcStringFree_proc) GetProcAddress (hm_rpcrt4, "RpcStringFreeA");
            if (pfn_UuidCreate && pfn_UuidToString && pfn_RpcStringFree)
                rpc_uuid_avail = 1;
            else
                rpc_uuid_avail = 0;
        }
        else
            rpc_uuid_avail = 0;
    }
    if (rpc_uuid_avail)
    {
        BYTE *uuid_str;
        UUID uuid;

        if (pfn_UuidCreate (&uuid) == RPC_S_OK)
        {
            if (pfn_UuidToString (&uuid, &uuid_str) == RPC_S_OK)
                sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
            pfn_RpcStringFree (&uuid_str);
            return 1;
        }
    }
}
/* Fills urn_str with a UUID based on random numbers in the format
required for the WARC-Record-Id header.
(See RFC 4122, UUID version 4.)

Note: this is a fallback method, it is much better to use the
methods provided by libuuid.

The string will be 47 characters long. */
void
warc_uuid_str (char *urn_str)
{
    /* RFC 4122, a version 4 UUID with only random numbers */

    unsigned char uuid_data[16];
    int i;

    #ifdef WINDOWS
    /* If the native method fails (expected on older Windows versions),
    use the fallback below. */
    if (windows_uuid_str (urn_str))
        return;
    #endif

    for (i=0; i<16; i++)
        uuid_data[i] = random_number (255);

    /* Set the four most significant bits (bits 12 through 15) of the
    * time_hi_and_version field to the 4-bit version number */
    uuid_data[6] = (uuid_data[6] & 0x0F) | 0x40;

    /* Set the two most significant bits (bits 6 and 7) of the
    * clock_seq_hi_and_reserved to zero and one, respectively. */
    uuid_data[8] = (uuid_data[8] & 0xBF) | 0x80;

    sprintf (urn_str,
            "<urn:uuid:%02x%02x%02x%02x-%02x%02x-%02x%02x-%02x%02x-%02x%02x%02x%02x>",
            uuid_data[0], uuid_data[1], uuid_data[2], uuid_data[3], uuid_data[4],
            uuid_data[5], uuid_data[6], uuid_data[7], uuid_data[8], uuid_data[9],
            uuid_data[10], uuid_data[11], uuid_data[12], uuid_data[13], uuid_data[14],
            uuid_data[15]);
    #endif

    /* Write a warcinfo record to the current file. */
static bool warc_write_warcinfo_record (const char *filename)
{
  FILE *warc_tmp;
  char timestamp[22];
  char *filename_basename;

  /* Write warc-info record as the first record of the file. */
  /* We add the record id of this info record to the other records in the
   * file. */
  warc_uuid_str (warc_current_warcinfo_uuid_str);
  warc_timestamp (timestamp, sizeof(timestamp));

  filename_basename = base_name (filename);

  warc_write_start_record ();
  warc_write_header ("WARC-Type", "warcinfo");
  warc_write_header ("Content-Type", "application/warc-fields");
  warc_write_header ("WARC-Date", timestamp);
  warc_write_header ("WARC-Record-ID", warc_current_warcinfo_uuid_str);
  warc_write_header ("WARC-Filename", filename_basename);

  xfree (filename_basename);

  /* Create content. */
  warc_tmp = warc_tempfile ();
  if (warc_tmp == NULL)
  {
    return false;
  }

  fprintf (warc_tmp, "software: Wget/%s (%s)\n", version_string, OS_TYPE);
  fprintf (warc_tmp, "format: WARC File Format 1.0\n");
  fprintf (warc_tmp, "conformsTo: http://bibnum.bnf.fr/WARC/WARC_ISO_28500_version1_latestdraft.pdf\n");
  fprintf (warc_tmp, "robots: %s\n", (opt.use_robots ? "classic" : "off");
  fprintf (warc_tmp, "wget-arguments: %s\n", program_argstring);
  /* Add the user headers, if any. */
  if (opt.warc_user_headers)
  {
    int i;
    for (i = 0; opt.warc_user_headers[i]; i++)
      fprintf (warc_tmp, "%s\n", opt.warc_user_headers[i]);
  }
  fprintf(warc_tmp, "\n");
warc_write_digest_headers (warc_tmp, -1);
warc_write_block_from_file (warc_tmp);
warc_write_end_record ();

if (! warc_write_ok)
    logprintf (LOG_NOTQUIET, _("Error writing warcinfo record to WARC file.
"));

fclose (warc_tmp);
return warc_write_ok;
}

/* Opens a new WARC file.
 If META is true, generates a filename ending with 'meta.warc.gz'

This method will:
1. close the current WARC file (if there is one);
2. increment warc_current_file_number;
3. open a new WARC file;
4. write the initial warcinfo record.

Returns true on success, false otherwise.
*/
static bool
warc_start_new_file (bool meta)
{
    #ifdef __VMS
    # define WARC_GZ "warc-gz"
    #else /* def __VMS */
    # define WARC_GZ "warc.gz"
    #endif /* def __VMS [else] */

    #ifdef HAVE_LIBZ
    const char *extension = (opt.warc_compression_enabled ? WARC_GZ : "warc");
    #else
    const char *extension = "warc";
    #endif

    int base_filename_length;
    char *new_filename;

    if (opt.warc_filename == NULL)
        return false;

    if (warc_current_file != NULL)
        fclose (warc_current_file);

    *warc_current_warcinfo_uuid_str = 0;
xfree (warc_current_filename);

    *warc_current_warcinfo_uuid_str = 0;
xfree (warc_current_filename);
warc_current_file_number++;

base_filename_length = strlen (opt.warc_filename);
/* filename format: base + "." + 5 digit serial number + ".warc.gz" */
new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);

warc_current_filename = new_filename;

/* If max size is enabled, we add a serial number to the file names. */
if (meta)
    sprintf (new_filename, "%s-meta.%s", opt.warc_filename, extension);
else if (opt.warc_maxsize > 0)
    
    sprintf (new_filename, "%s-%05d.%s", opt.warc_filename, warc_current_file_number, extension);
else
    sprintf (new_filename, "%s.%s", opt.warc_filename, extension);

logprintf (LOG_VERBOSE, _("Opening WARC file %s:\n\n"), quote (new_filename));

/* Open the WARC file. */
warc_current_file = fopen (new_filename, "wb+");
if (warc_current_file == NULL)
    
    logprintf (LOG_NOTQUIET, _("Error opening WARC file %s:\n"), quote (new_filename));
    return false;

if (! warc_write_warcinfo_record (new_filename))
    return false;

/* Add warcinfo uuid to manifest. */
if (warc_manifest_fp)
    fprintf (warc_manifest_fp, "%s\n", warc_current_warcinfo_uuid_str);

return true;

/* Opens the CDX file for output. */
static bool
warc_start_cdx_file (void)
{
    int filename_length = strlen (opt.warc_filename);
    char *cdx_filename = alloca (filename_length + 4 + 1);
    memcpy (cdx_filename, opt.warc_filename, filename_length);

    /* filename format: base + "." + 5 digit serial number + ".warc.gz" */
    new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);

    warc_current_filename = new_filename;

    /* If max size is enabled, we add a serial number to the file names. */
    if (meta)
        sprintf (new_filename, "%s-meta.%s", opt.warc_filename, extension);
    else if (opt.warc_maxsize > 0)
        
        sprintf (new_filename, "%s-%05d.%s", opt.warc_filename, warc_current_file_number, extension);
    else
        sprintf (new_filename, "%s.%s", opt.warc_filename, extension);

    logprintf (LOG_VERBOSE, _("Opening WARC file %s:\n\n"), quote (new_filename));

    /* Open the WARC file. */
    warc_current_file = fopen (new_filename, "wb+");
    if (warc_current_file == NULL)
        
        logprintf (LOG_NOTQUIET, _("Error opening WARC file %s:\n"), quote (new_filename));
        return false;

    if (! warc_write_warcinfo_record (new_filename))
        return false;

    /* Add warcinfo uuid to manifest. */
    if (warc_manifest_fp)
        fprintf (warc_manifest_fp, "%s\n", warc_current_warcinfo_uuid_str);

    return true;
}
memcpy (cdx_filename + filename_length, ".cdx", 5);
warc_current_cdx_file = fopen (cdx_filename, "a+");
if (warc_current_cdx_file == NULL)
    return false;

/* Print the CDX header.
 * 
a - original url
*b - date
*m - mime type
*s - response code
*k - new style checksum
*r - redirect
*M - meta tags
*V - compressed arc file offset
*g - file name
*u - record-id
*/
fprintf (warc_current_cdx_file, " CDX a b a m s k r M V g u\n");
fflush (warc_current_cdx_file);
return true;
}
#define CDX_FIELDSEP " \t\n"

/* Parse the CDX header and find the field numbers of the original url, 
 checksum and record ID fields. */
static bool 
warc_parse_cdx_header (char *lineptr, int *field_num_original_url,
    int *field_num_checksum, int *field_num_record_id)
{
    char *token;
    char *save_ptr;

    *field_num_original_url = -1;
    *field_num_checksum = -1;
    *field_num_record_id = -1;

    token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);

    if (token != NULL && strcmp (token, "CDX") == 0)
    {
        int field_num = 0;
        while (token != NULL)
        {
            token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
            if (token != NULL)
switch (token[0])
{
  case 'a':
    *field_num_original_url = field_num;
    break;
  case 'k':
    *field_num_checksum = field_num;
    break;
  case 'u':
    *field_num_record_id = field_num;
    break;
}
field_num++;
}

return *field_num_original_url != -1
  && *field_num_checksum != -1
  && *field_num_record_id != -1;

/* Parse the CDX record and add it to the warc_cdx_dedup_table hash table. */
static void
warc_process_cdx_line (char *lineptr, int field_num_original_url,
                        int field_num_checksum, int field_num_record_id)
{
  char *original_url = NULL;
  char *checksum = NULL;
  char *record_id = NULL;
  char *token;
  char *save_ptr;
  int field_num = 0;

  /* Read this line to get the fields we need. */
  token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);
  while (token != NULL)
  {
    char **val;
    if (field_num == field_num_original_url)
      val = &original_url;
    else if (field_num == field_num_checksum)
      val = &checksum;
    else if (field_num == field_num_record_id)
      val = &record_id;
    else
      val = NULL;

    /* Parse each field and store it. */
    *val = NULL;
    field_num++;
  }
}
if (val != NULL)
    *val = strdup (token);

    token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
    field_num++;
}

if (original_url != NULL && checksum != NULL && record_id != NULL)
{
    /* For some extra efficiency, we decode the base32 encoded
     checksum value. This should produce exactly SHA1_DIGEST_SIZE
     bytes. */
    size_t checksum_l;
    char * checksum_v;
    base32_decode_alloc (checksum, strlen (checksum), &checksum_v,
                        &checksum_l);
    xfree (checksum);

    if (checksum_v != NULL && checksum_l == SHA1_DIGEST_SIZE)
    {
        /* This is a valid line with a valid checksum. */
        struct warc_cdx_record *rec;
        rec = xmalloc (sizeof (struct warc_cdx_record));
        rec->url = original_url;
        rec->uuid = record_id;
        memcpy (rec->digest, checksum_v, SHA1_DIGEST_SIZE);
        hash_table_put (warc_cdx_dedup_table, rec->digest, rec);
        xfree (checksum_v);
    }
    else
    {
        xfree (original_url);
        xfree (checksum_v);
        xfree (record_id);
    }
}
else
{
    xfree(checksum);
    xfree(original_url);
    xfree(record_id);
}

/* Loads the CDX file from opt.warc_cdx_dedup_filename and fills
 the warc_cdx_dedup_table. */
static bool
warc_load_cdx_dedup_file (void)
{
  FILE *f;
  char *lineptr = NULL;
  size_t n = 0;
  ssize_t line_length;
  int field_num_original_url = -1;
  int field_num_checksum = -1;
  int field_num_record_id = -1;

  f = fopen (opt.warc_cdx_dedup_filename, "r");
  if (f == NULL)
    return false;

  /* The first line should contain the CDX header. */
  /* Format: " CDX x x x x x"
   where x are field type indicators. For our purposes, we only need 'a' (the original url), 'k' (the SHA1 checksum) and 'u' (the WARC record id). */
  line_length = getline (&lineptr, &n, f);
  if (line_length != -1)
    warc_parse_cdx_header (lineptr, &field_num_original_url,
                           &field_num_checksum, &field_num_record_id);

  /* If the file contains all three fields, read the complete file. */
  if (field_num_original_url == -1
      || field_num_checksum == -1
      || field_num_record_id == -1)
    {
      if (field_num_original_url == -1)
        logprintf (LOG_NOTQUIET,
                   "CDX file does not list original urls. (Missing column 'a'.)\n");
      if (field_num_checksum == -1)
        logprintf (LOG_NOTQUIET,
                   "CDX file does not list checksums. (Missing column 'k').\n");
      if (field_num_record_id == -1)
        logprintf (LOG_NOTQUIET,
                   "CDX file does not list record ids. (Missing column 'u').\n");
    }
  else
    {
      int nrecords;

      /* Initialize the table. */
      warc_cdx_dedup_table = hash_table_new (1000, warc_hash_sha1_digest,
                                             warc_cmp_sha1_digest);

      do
{  
  line_length = getline (&lineptr, &n, f);
  if (line_length != -1)
    
    warc_process_cdx_line (lineptr, field_num_original_url,
      field_num_checksum, field_num_record_id);
  
}

while (line_length != -1);

/* Print results. */

nrecords = hash_table_count (warc_cdx_dedup_table);
logprintf (LOG_VERBOSE, ngettext("Loaded %d record from CDX.\n\n", 
"Loaded %d records from CDX.\n\n", 
 nrecords),
          nrecords);
}

xfree (lineptr);
fclose (f);

return true;
}

#undef CDX_FIELDSEP

/* Returns the existing duplicate CDX record for the given url and payload digest. Returns NULL if the url is not found or if the payload digest does not match, or if CDX deduplication is disabled. */
static struct warc_cdx_record *

warc_find_duplicate_cdx_record (const char *url, char *sha1_digest_payload)

{
  struct warc_cdx_record *rec_existing;

  if (warc_cdx_dedup_table == NULL)
    return NULL;

  rec_existing = hash_table_get (warc_cdx_dedup_table, sha1_digest_payload);

  if (rec_existing && strcmp (rec_existing->url, url) == 0)
    return rec_existing;
  else
    return NULL;
}

/* Initializes the WARC writer (if opt.warc_filename is set).
   This should be called before any WARC record is written. */

void
warc_init (void)
{
    warc_write_ok = true;

    if (opt.warc_filename != NULL)
    {
        if (opt.warc_cdx_dedup_filename != NULL)
        {
            if (! warc_load_cdx_dedup_file ())
            {
                logprintf (LOG_NOTQUIET,
                        _("Could not read CDX file %s for deduplication.
"),
                        quote (opt.warc_cdx_dedup_filename));
                exit (WGET_EXIT_GENERIC_ERROR);
            }

            warc_manifest_fp = warc_tempfile ();
            if (warc_manifest_fp == NULL)
            {
                logprintf (LOG_NOTQUIET,
                        _("Could not open temporary WARC manifest file.
"));
                exit (WGET_EXIT_GENERIC_ERROR);
            }

            if (opt.warc_keep_log)
            {
                warc_log_fp = warc_tempfile ();
                if (warc_log_fp == NULL)
                {
                    logprintf (LOG_NOTQUIET,
                            _("Could not open temporary WARC log file.
"));
                    exit (WGET_EXIT_GENERIC_ERROR);
                }

                log_set_warc_log_fp (warc_log_fp);
            }

            warc_current_file_number = -1;
            if (! warc_start_new_file (false))
            {
                logprintf (LOG_NOTQUIET, _("Could not open WARC file.
"));
                exit (WGET_EXIT_GENERIC_ERROR);
            }

            if (opt.warc_cdx_enabled)
            {
                if (! warc_start_cdx_file ())
                {
                    logprintf (LOG_NOTQUIET, _("Could not start CDX file.
"));
                    exit (WGET_EXIT_GENERIC_ERROR);
                }
            }
        }
    }
}
logprintf (LOG_NOTQUIET, "Could not open CDX file for output.");
exit (WGET_EXIT_GENERIC_ERROR);
}
}
}

/* Writes metadata (manifest, configuration, log file) to the WARC file. */
static void warc_write_metadata (void)
{
    char manifest_uuid[48];
    FILE *warc_tmp_fp;

    /* If there are multiple WARC files, the metadata should be written to a separate file. */
    if (opt.warc_maxsize > 0)
        warc_start_new_file (true);

    warc_uuid_str (manifest_uuid);
    fflush (warc_manifest_fp);
    warc_write_metadata_record (manifest_uuid,
        "metadata://gnu.org/software/wget/warc/MANIFEST.txt",
        NULL, NULL, NULL, "text/plain",
        warc_manifest_fp, -1);
    /* warc_write_resource_record has closed warc_manifest_fp. */

    warc_tmp_fp = warc_tempfile ();
    if (warc_tmp_fp == NULL)
    {
        logprintf (LOG_NOTQUIET, "Could not open temporary WARC file.");
        exit (WGET_EXIT_GENERIC_ERROR);
    }
    fflush (warc_tmp_fp);
    fprintf (warc_tmp_fp, "%s\n", program_argstring);

    warc_write_resource_record (NULL,
        "metadata://gnu.org/software/wget/warc/wget_arguments.txt",
        NULL, manifest_uuid, NULL, "text/plain",
        warc_tmp_fp, -1);
    /* warc_write_resource_record has closed warc_tmp_fp. */

    if (warc_log_fp != NULL)
    {
        warc_write_resource_record (NULL,
            "metadata://gnu.org/software/wget/warc/wget.log",
            NULL, manifest_uuid, NULL, "text/plain",
            warc_log_fp, -1);
    }
warc_log_fp = NULL;
log_set_warc_log_fp (NULL);
}
}

/* Finishes the WARC writing. This should be called at the end of the program. */
void warc_close (void)
{
if (warc_current_file != NULL)
{
    warc_write_metadata ();
    *warc_current_warcinfo_uuid_str = 0;
    fclose (warc_current_file);
    warc_current_file = NULL;
}
}

if (warc_current_cdx_file != NULL)
{
    fclose (warc_current_cdx_file);
    warc_current_cdx_file = NULL;
}

if (warc_log_fp != NULL)
{
    fclose (warc_log_fp);
    log_set_warc_log_fp (NULL);
}

/* Creates a temporary file for writing WARC output. The temporary file will be created in opt.warc_tempdir. Returns the pointer to the temporary file, or NULL. */
FILE *
warc_tempfile (void)
{
    char filename[100];
    int fd;

    if (path_search (filename, 100, opt.warc_tempdir, "wget", true) == -1)
        return NULL;

#ifdef __VMS
    /* 2013-07-12 SMS.
*/
#endif
/* 2013-07-12 SMS.*/
* mkostemp()+unlink()+fdopen() scheme causes trouble on VMS, so use
* mktemp() to uniquify the (VMS-style) name, and then use a normal
* fopen() with a "create temp file marked for delete" option.
*/
{
    char *tfn;

tfn = mktemp (filename);        /* Get unique name from template. */
    if (tfn == NULL)
        return NULL;
    return fopen (tfn, "w+", "fop=tmd");    /* Create auto-delete temp file. */
}
#else /* def __VMS */
    fd = mkostemp (filename, O_TEMPORARY);
    if (fd < 0)
        return NULL;
#if !O_TEMPORARY
    if (unlink (filename) < 0)
        {
            close(fd);
            return NULL;
        }
#endif
    return fdopen (fd, "wb+");
#endif /* def __VMS [else] */
}

/* Writes a request record to the WARC file.
   url  is the target uri of the request,
   timestamp_str is the timestamp of the request (generated with warc_timestamp),
   record_uuid is the uuid of the request (generated with warc_uuid_str),
   body  is a pointer to a file containing the request headers and body.
   ip  is the ip address of the server (or NULL),
   Calling this function will close body.
   Returns true on success, false on error. */
bool
warc_write_request_record (const char *url, const char *timestamp_str,
                          const char *record_uuid, const ip_address *ip,
                          FILE *body, off_t payload_offset)
{
    warc_write_start_record ();
    warc_write_header ("WARC-Type", "request");
    warc_write_header_uri ("WARC-Target-URI", url);
    warc_write_header ("Content-Type", "application/http;msgtype=request");
    warc_write_date_header (timestamp_str);
warc_write_header("WARC-Record-ID", record_uuid);
warc_write_ip_header(ip);
warc_write_header("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_digest_headers(body, payload_offset);
warc_write_block_from_file(body);
warc_write_end_record();
fclose(body);

return warc_write_ok;
}

/* Writes a response record to the CDX file. 
   url is the target uri of the request/response,
   timestamp_str is the timestamp of the request that generated this response,
      (generated with warc_timestamp),
   mime_type is the mime type of the response body (will be printed to CDX),
   response_code is the HTTP response code (will be printed to CDX),
   payload_digest is the sha1 digest of the payload,
   redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
   offset is the position of the WARC record in the WARC file,
   warc_filename is the filename of the WARC,
   response_uuid is the uuid of the response.
Returns true on success, false on error. */
static bool
warc_write_cdx_record (const char *url, const char *timestamp_str,
                        const char *mime_type, int response_code,
                        const char *payload_digest, const char *redirect_location,
                        off_t offset, const char *warc_filename _GL_UNUSED,
                        const char *response_uuid)
{
    /* Transform the timestamp. */
    char timestamp_str_cdx[15];
    char offset_string[MAX_INT_TO_STRING_LEN(off_t)];
    const char *checksum;

    memcpy (timestamp_str_cdx , timestamp_str , 4); /* YYYY "-" */
    memcpy (timestamp_str_cdx + 4, timestamp_str + 5, 2); /* mm "-" */
    memcpy (timestamp_str_cdx + 6, timestamp_str + 8, 2); /* dd "T" */
    memcpy (timestamp_str_cdx + 8, timestamp_str + 11, 2); /* HH "" */
    memcpy (timestamp_str_cdx + 10, timestamp_str + 14, 2); /* MM "" */
    memcpy (timestamp_str_cdx + 12, timestamp_str + 17, 2); /* SS "Z" */
    timestamp_str_cdx[14] = '\0';

    /* Rewrite the checksum. */
    if (payload_digest != NULL)
        checksum = payload_digest + 5; /* Skip the "sha1:" */
    else

checksum = ".";

if (mime_type == NULL || strlen(mime_type) == 0)
    mime_type = ".";
if (redirect_location == NULL || strlen(redirect_location) == 0)
    redirect_location = ".";
else
    redirect_location = url_escape(redirect_location);

number_to_string (offset_string, offset);

/* Print the CDX line. */
fprintf (warc_current_cdx_file, "%s %s %s %s %d %s %s %s
", url,
          timestamp_str_cdx, url, mime_type, response_code, checksum,
          redirect_location, offset_string, warc_current_filename,
          response_uuid);
fflush (warc_current_cdx_file);
return true;
}

/* Writes a revisit record to the WARC file. 
   url is the target uri of the request/response,
   timestamp_str is the timestamp of the request that generated this response
   (generated with warc_timestamp),
   concurrent_to_uuid is the uuid of the request for that generated this response
   (generated with warc_uuid_str),
   refers_to_uuid is the uuid of the original response
   (generated with warc_uuid_str),
   payload_digest is the sha1 digest of the payload,
   ip is the ip address of the server (or NULL),
   body is a pointer to a file containing the response headers (without payload).
   Calling this function will close body.
   Returns true on success, false on error. */
static bool
warc_write_revisit_record (const char *url, const char *timestamp_str,
                           const char *concurrent_to_uuid, const char *payload_digest,
                           const char *refers_to, const ip_address *ip, FILE *body)
{
    char revisit_uuid [48];
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char sha1_res_block[SHA1_DIGEST_SIZE];

    warc_uuid_str (revisit_uuid);
    sha1_stream (body, sha1_res_block);
    warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));
warc_write_start_record();
warc_write_header("WARC-Type", "revisit");
warc_write_header("WARC-Record-ID", revisit_uuid);
warc_write_header("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header("WARC-Refers-To", refers_to);
warc_write_header("WARC-Profile", "http://netpreserve.org/warc/1.0/revisit/identical-payload-digest");
warc_write_header("WARC-Truncated", "length");
warc_write_header_uri("WARC-Target-URI", url);
warc_write_date_header(timestamp_str);
warc_write_ip_header(ip);
warc_write_header("Content-Type", "application/http;msgtype=response");
warc_write_header("WARC-Block-Digest", block_digest);
warc_write_header("WARC-Payload-Digest", payload_digest);
warc_write_block_from_file(body);
warc_write_end_record();
fclose(body);
return warc_write_ok;
}

/* Writes a response record to the WARC file.  
url is the target uri of the request/response, 
timestamp_str is the timestamp of the request that generated this response 
   (generated with warc_timestamp), 
concurrent_to_uuid is the uuid of the request for that generated this response 
   (generated with warc_uuid_str), 
ip is the ip address of the server (or NULL), 
body is a pointer to a file containing the response headers and body. 
mime_type is the mime type of the response body (will be printed to CDX), 
response_code is the HTTP response code (will be printed to CDX), 
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX), 
Calling this function will close body. 
Returns true on success, false on error. */
bool
warc_write_response_record(const char *url, const char *timestamp_str, 
const char *concurrent_to_uuid, const ip_address *ip, 
FILE *body, off_t payload_offset, const char *mime_type, 
int response_code, const char *redirect_location)
{
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char payload_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char sha1_res_block[SHA1_DIGEST_SIZE];
    char sha1_res_payload[SHA1_DIGEST_SIZE];
    char response_uuid [48];
    off_t offset;
if (opt.warc_digests_enabled)
{
    /* Calculate the block and payload digests. */
    rewind (body);
    if (warc_sha1_stream_with_payload (body, sha1_res_block, sha1_res_payload, payload_offset) == 0)
    {
        /* Decide (based on url + payload digest) if we have seen this data before. */
        struct warc_cdx_record *rec_existing;
        rec_existing = warc_find_duplicate_cdx_record (url, sha1_res_payload);
        if (rec_existing != NULL)
        {
            bool result;

            /* Found an existing record. */
            logprintf (LOG_VERBOSE, 
                _("Found exact match in CDX file. Saving revisit record to WARC\n"));

            /* Remove the payload from the file. */
            if (payload_offset > 0)
            {
                if (ftruncate (fileno (body), payload_offset) == -1)
                    return false;
            }

            /* Send the original payload digest. */
            warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));
            warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
        }
    }

    /* Not a revisit, just store the record. */
    warc_uuid_str (response_uuid);

    fseeko (warc_current_file, 0L, SEEK_END);
    offset = ftello (warc_current_file);

    warc_write_start_record ();
}
warc_write_header ("WARC-Type", "response");
warc_write_header ("WARC-Record-ID", response_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC- Concurrent-To", concurrent_to uuid);
warc_write_header_uri ("WARC- Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("WARC- Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_header ("Content-Type", "application/http; msgtype=response");
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

if (warc_write_ok && opt.warc_cdx_enabled)
{
    /* Add this record to the CDX. */
    warc_write_cdx_record (url, timestamp_str, mime_type, response_code,
        payload_digest, redirect_location, offset, warc_current_filename,
        response_uuid);
}

return warc_write_ok;

/* Writes a resource or metadata record to the WARC file.  
   warc_type is either "resource" or "metadata", 
   resource_uuid is the uuid of the resource (or NULL), 
   url is the target uri of the resource, 
   timestamp_str is the timestamp (generated with warc_timestamp), 
   concurrent_to_uuid is the uuid of the record that generated this, 
   resource (generated with warc_uuid_str) or NULL, 
   ip is the ip address of the server (or NULL), 
   content_type is the mime type of the body (or NULL), 
   body is a pointer to a file containing the resource data.  
   Calling this function will close body.  
   Returns true on success, false on error. */
static bool 
warc_write_record (const char *record_type, const char *resource_uuid,
    const char *url, const char *timestamp_str,
    const char *concurrent_to_uuid,
    const ip_address *ip, const char *content_type, FILE *body,
    off_t payload_offset)
{
    if (resource_uuid == NULL)
    {
        /* using uuid_buf allows const for resource_uuid in function declaration */

    /* using uuid_buf allows const for resource_uuid in function declaration */


char *uuid_buf = alloca (48);
warc_uuid_str (uuid_buf);
resource_uuid = uuid_buf;
}

if (content_type == NULL)
    content_type = "application/octet-stream";

warc_write_start_record ();
warc_write_header ("WARC-Type", record_type);
warc_write_header ("WARC-Record-ID", resource_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_digest_headers (body, payload_offset);
warc_write_header ("Content-Type", content_type);
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

return warc_write_ok;
}

/* Writes a resource record to the WARC file.
resource_uuid  is the uuid of the resource (or NULL),
url  is the target uri of the resource,
timestamp_str  is the timestamp (generated with warc_timestamp),
concurrent_to_uuid  is the uuid of the record that generated this,
resource (generated with warc_uuid_str) or NULL,
ip  is the ip address of the server (or NULL),
content_type  is the mime type of the body (or NULL),
body  is a pointer to a file containing the resource data.
Calling this function will close body.
Returns true on success, false on error. */
bool warc_write_resource_record (const char *resource_uuid, const char *url,
const char *timestamp_str, const char *concurrent_to_uuid,
const ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{
    return warc_write_record ("resource",
        resource_uuid, url, timestamp_str, concurrent_to_uuid,
        ip, content_type, body, payload_offset);
}
/* Writes a metadata record to the WARC file.
record_uuid is the uuid of the record (or NULL),
url is the target uri of the record,
timestamp_str is the timestamp (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the record that generated this,
record (generated with warc_uuid_str) or NULL,
ip is the ip address of the server (or NULL),
content_type is the mime type of the body (or NULL),
body is a pointer to a file containing the record data.
Calling this function will close body.
Returns true on success, false on error. */

bool warc_write_metadata_record (const char *record_uuid, const char *url,
const char *timestamp_str, const char *concurrent_to_uuid,
ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{
return warc_write_record ("metadata",
record_uuid, url, timestamp_str, concurrent_to_uuid,
ip, content_type, body, payload_offset);
}

1.285 pcsc-lite 1.8.22 r0

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1.296 functools32 3.2.3.post2 py2.7
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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.cnr.ustin.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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1.297 c3js 0.4.13

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1.305 libvirt 4.7.0 r0

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1.306 python-backports-lzma 0.0.3 r0

1.307 go-runtime 1.10.3 r0

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1.308 kernel-devsrc 1.0 r0

1.309 glibc 2.28 r0
1.309.1 Available under license:

    From 18fe4a6172c58fe863fe388745c78ec642c2c6fa Mon Sep 17 00:00:00 2001
    From: Serhii Popovych <spopovyc@cisco.com>
    Date: Fri, 23 Sep 2016 23:00:43 -0700
    Subject: [PATCH] glibc: Do not build BSD kernels compatibility functions

They are failing stubs anyway and may cause various
build time issues (e.g. libopenbsd-compat.so from
binos/contrib/openssh linking failures due to
multiple setlogin() definitions).

Following functions are not in glibc with this patch:

    chflags
    fchflags
    lchmod
    revoke
    setlogin

Signed-off-by: Serhii Popovych <spopovyc@cisco.com>
---
io/Makefile | 2 +-
login/Makefile | 2 +-
misc/Makefile | 3 +--
3 files changed, 3 insertions(+), 4 deletions(-)

diff --git a/io/Makefile b/io/Makefile
index ec5c6d7a2fb8..fc062296a560 100644
--- a/io/Makefile
+++ b/io/Makefile
@@ -36,7 +36,7 @@ routines :=
 fxstatat fxstatat64
 statfs fstatfs statfs64 fstatfs64
 statvfs fstatvfs statvfs64 fstatvfs64
-umask chmod fchmod lchmod fchmodat
+umask chmod fchmod fchmodat
 mkdir mkdirat
 open open_2 open64 open64_2 openat openat_2 openat64 openat64_2
 read write lseek lseek64 access euidaccess faccessat

diff --git a/login/Makefile b/login/Makefile
index 8b31991be835..2cd1384c6e01 100644
--- a/login/Makefile
+++ b/login/Makefile
@@ -25,7 +25,7 @@ include ../Makeconfig
 headers := utmp.h bits/utmp.h lastlog.h pty.h
-routines := getlogin getlogin_r setlogin getlogin_r_chk 
+routines := getlogin getlogin_r getlogin_r_chk 
+getutent getutent_r getutid getutline getutid_r getutline_r 
 utmp_file utmpname updtmp tmp getpt grantpt unlockpt ptname 
 ptname_r chk

diff --git a/misc/Makefile b/misc/Makefile
index c9f81515ac9a..b4bce79e5854 100644
--- a/misc/Makefile
+++ b/misc/Makefile
@@ -49,7 +49,7 @@ routines := brk sbrk sstk ioctl 
 -revoke vhangup 
 + vhangup 
 swapon swapoff mktemp mkstemp mkstemp64 mkdtemp 
 mkstemp mkstemp64 mkstemp64 mkstemp64 mkstems64 
 ualarm usleep 
@@ -58,7 +58,6 @@ routines := brk sbrk sstk ioctl 
 utimes lutimes futimes futimesat 

truncatetruncate truncate64 ftruncate64 \n- chflags fchflags \ninsremque getttyent getusershell getpass ttyslot \nsyslog syscall daemon \nmmap mmap64 munmap mprotect msync madvise mincore remap_file_pages

1.310 libmbim 1.18.0 r0
1.310.1 Available under license:
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**1.312 tcp-dump 4.9.3 r0**

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1.313 libpcap 1.8.1 r0

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*/
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#else
#include <linux/ax25.h>
#endif
#include <netax25/ax25.h>
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"
static char netrom_errmsg[128];

extern struct aftype netrom_aftype;

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;

    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
            buff[i] = '0';
    }
    buff[6] = '0';
    i = ((ptr[6] & 0x1E) >> 1);
    if (i != 0)
        sprintf(&buff[strlen(buff)], "-%d", i);
    return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
    char buf[64];
    if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
        return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
    return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
    unsigned char *ptr;
    char *orig, c;
    unsigned int i;

    sap->sa_family = netrom_aftype.af;
    ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;

    /* First, scan and convert the basic callsign. */
    orig = bufp;
    i = 0;
    while ((*bufp != '0') && (*bufp != '-') && (i < 6)) {
        c = *bufp++;
        if (islower(c))
c = toupper(c);
if (!isupper(c)||isdigit(c)) {
    safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
    errno = EINVAL;
    return (-1);
}
*ptr++ = (unsigned char) ((c << 1) & 0xFE);
i++;

/* Callsign too long? */
if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
    safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
    errno = E2BIG;
    return (-1);
}
/* Nope, fill out the address bytes with blanks. */
while (i+++ < sizeof(ax25_address) - 1) {
    *ptr++ = (unsigned char) ((i << 1) & 0xFE);
}
/* See if we need to add an SSID field. */
if (*bufp == '-') {
    i = atoi(;++bufp);
    *ptr = (unsigned char) ((i << 1) & 0xFE);
} else {
    *ptr = (unsigned char) '\0';
}
/* All done. */
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): ", orig);
    for (i = 0; i < sizeof(ax25_address); i++)
        fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
    fprintf(stderr, "\n");
#endif
    return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
    if (text == NULL)
        fprintf(stderr, "%s\n", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
    if (NETROM_input(0, bufp, sap) < 0)
        return (-1);
    sap->sa_family = ARPHRD_NETROM;
    return (0);
}

#if 0
/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}

/* Start the KISS encapsulation on the file descriptor. */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
"netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
NULL, NULL, NULL,
-1,
"/proc/net/nr"
};
#endif /* HAVE_AFNETROM */
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1.319 ptest-runner 2.2 r0

1.320 protobuf-c 1.3.1 r0

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1.321 linux-kernel 4.19.88

9a0ccad9825f7f3fdd8bf82a06704f3242449cce

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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

/* 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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Contributors
============

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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- 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)
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QLogic Linux FC-FCoE Driver

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-------------------------

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2. Style:

   The SPDX license identifier is added in form of a comment. The comment style depends on the file type::
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3. Syntax:

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License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.:

// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression:

// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note

Other examples using WITH exceptions found in the kernel are:

// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions` in the chapter `License identifiers`.
OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses:

// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause

Examples from the kernel for license expressions in dual licensed files:

// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect:

// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT

Another other example where both sets of license terms need to be adhered to is:

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License identifiers

-------------------

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1. `Preferred licenses`:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory:

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The files in this directory contain the full license text and `Metatags`. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples:
LICENSES/preferred/GPL-2.0

Contains the GPL version 2 license text and the required metatags:

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

  One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

  The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

  Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax` guidelines.

- License-Text:

  All text after this tag is treated as the original license text

File format examples::

  Valid-License-Identifier: GPL-2.0
  Valid-License-Identifier: GPL-2.0+
  SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
  Usage-Guide:
    To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.
  For 'GNU General Public License (GPL) version 2 only' use:
    SPDX-License-Identifier: GPL-2.0
  For 'GNU General Public License (GPL) version 2 or any later version' use:
    SPDX-License-Identifier: GPL-2.0+
License-Text:
  Full license text

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  SPDX-License-Identifier: MIT
  SPDX-URL: https://spdx.org/licenses/MIT.html

Usage-Guide:
To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT

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2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

  LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

  LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

  LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for `other` licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

---
Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html

Usage-Guide:
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To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC
License-Text:
Full license text

3. _`Exceptions`: 

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

    LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full exception text and the required `Exception Metatags`_.

Examples::

    LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files.

_e.g._ /
*/
SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */:

    LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

_`Exception Metatags`: 

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:
One exception identifier which can be used with SPDX license identifiers.

- **SPDX-URL:**

  The URL of the SPDX page which contains additional information related to the exception.

- **SPDX-Licenses:**

  A comma separated list of SPDX license identifiers for which the exception can be used.

- **Usage-Guidance:**

  Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- **Exception-Text:**

  All text after this tag is treated as the original exception text

File format examples::

  SPDX-Exception-Identifier: Linux-syscall-note
  SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
  SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
  Usage-Guidance:  
  This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.
  To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag: 
  SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
  Exception-Text:
  Full exception text

::

  SPDX-Exception-Identifier: GCC-exception-2.0
  SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
  SPDX-Licenses: GPL-2.0, GPL-2.0+
  Usage-Guidance:  
  The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.
  To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0

Exception-Text:

Full exception text

All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS organizations, e.g. the `FSFE REUSE initiative <https://reuse.software/>`_.

Valid-License-Identifier: LGPL-2.0

Valid-License-Identifier: LGPL-2.0+

SPDX-URL: https://spdx.org/licenses/LGPL-2.0.html

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU Library General Public License (LGPL) version 2.0 only' use:

SPDX-License-Identifier: LGPL-2.0

For 'GNU Library General Public License (LGPL) version 2.0 or any later version' use:

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License-Text:

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Version 2, June 1991

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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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      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,

   c) Accompany it with the information you received as to the offer
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all fields (only present with certain compiler settings).
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* Small patch improving performance of in Python serialization.
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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
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* HPUX support.
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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
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* 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.
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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
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* Fixed detection of sched_yield on Solaris.
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* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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1.326 icu 62.1 r0

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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,-Bsymmetric

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
## Dependency rules

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

1.327 python3-pyyaml 3.13 r0
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1.328 iperf2 2.0.10 r0

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1.329 opkg-utils 0.3.6 r0

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1.330 bash-completion 2.8 r0

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1.331 setools 4.1.1 r0

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/* Written July 1992 by Mike Haertel. */
```

1.333 nss 3.39 r0

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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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1.336 cpio 2.12 r0
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1.344 policycoreutils 2.8 r0
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1.345 libcheck 0.12.0 r0

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1.348 lzmaffi 0.3.0

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Metadata-Version: 1.0
Name: lzmaffi
Version: 0.3.0
Summary: Port of Python 3.3’s 'lzma' module for XZ/LZMA compressed files to cffi.
Home-page: https://github.com/r3m0t/backports.lzma
Author: Tomer Chachamu, based on work by Peter Cock
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Description: This is a port of the 'lzma' module included in Python 3.3 or later
    by Nadeem Vawda and Per Oyvind Karlsen, which provides a Python wrapper for XZ Utils
    (aka LZMA Utils v2) by Igor Pavlov.

Unlike backports.lzma which is a straight backport, this version uses cffi which means
it runs on PyPy without having to use the (very slow) CPyExt. It also runs perfectly
well on CPython 2.6, 2.7 or 3.

To use, either `import lzmaffi as lzma`, or add this at the beginning of your script:

    import lzmaffi.compat
    lzmaffi.compat.register()

Then `import lzma` as usual.

In order to compile this, you will need to install XZ Utils from http://tukaani.org/xz/

Keywords: xz lzma compression decompression cffi ffi
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7

Open Source Used In Callisto_PSIRT 1.3.2 3690
1.349 libsockv 0.6.35 r0
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1.352 gobject-introspection 1.58.0 r0

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**1.353 lrzsz 0.12.20 r6**

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#!/usr/bin/perl -0777 -pi

/Open Source Used In Callisto_PSIRT 1.3.2 3791/
# Update b4_copyright invocations or b4_copyright_years definitions to
# include the current year.

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
( (?::[^\n]u)
  #BEFORE
  (?:
    \b4\_copyright\([\[\^[*]*\]^]\[
    \[m4\_\(?::\push\pop\)\]def\(\[\[\b4\_copyright\_years\[
  )
  #AFTER
  )
  (?:
    \s*
    ( "[\w\s]* (?:\d\{4\}(?:,\s*|-)*)\s* (\d\{4\}) \s*"
    )
    )?
    \)
EOF


while (/($old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ');

    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ',';
        if ($final_year != $this_year)
        {
            # Update the year.
            $year_lines =~ s/$final_year/$final_year, $this_year/;  
        }

        # Normalize all whitespace.
        $year_lines =~ s/s+/ /g;

        # Put spaces after commas.
        $year_lines =~ s/\?/ /g;

        # Compress to intervals.
        $year_lines =~
        s/
        \d{4})
        (?:
            \-)
        ((?!\)
            if  ($2 eq '-') { \d{4}';  }  
            elsif (!$3)       { $1 + 1;  }  
            else              { $3 + 1;  }  
        ))
    }+
    /$1-$3/gx;

    # Format within margin.
    my $year_lines_new;
    my $indent = index ($b4_copyright_line, '
');
    --Sindent if ($b4_copyright_line =~ m/^\n/);  
    while (length $year_lines)
    {
        my $text_margin = $margin - $indent;
        if (($year_lines =~ s/^\n(. {1,$text_margin})(?: |$)//)  
            || ($year_lines =~ s/^([\S\]+)(?: |$)//))
            my $text_margin = $margin - $indent;
            if ((($year_lines =~ s/^\n(. {1,$text_margin})(?: |$)//)  
                || ($year_lines =~ s/^([\S\]+)(?: |$)//))
my $line = "\n" . (' 'x$indent) . $1;
++$indent if (!$year_lines_new);
$year_lines_new .= $line;
} else {
    # Should be unreachable, but we don’t want an infinite
    # loop if it can be reached.
    die;
}

# Replace the old invocation. Should never die.
die if (!/$old_re\G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
pos () = $start + length ("$b4_copyright_line$year_lines_new");
}
}

while (/(b4_copyright\()\//g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
pos () = $start;
$re =~ s/#BEFORE/\G/;
if (!/$re/x)
    {
        my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a b4_copyright\n";
    }
pos () = $end;
}

while (/\[b4_copyright_years\])/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
$re =~ s/#AFTER/\G/;
if (!/$re/x)
    {
        # The substr operation blows away pos (), so restoring pos ()
        # at the end is necessary.
        my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
print STDERR
"$ARGV:$line: warning: failed to update a"
  . " b4_copyright_years
";
} pos () = $end;
}

1.362 coreutils 8.30 r0
1.362.1 Available under license:

/* Test whether a file has a nontrivial ACL.  -*- coding: utf-8 -*-

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Written by Paul Eggert, Andreas Grünbacher, and Bruno Haible.  */

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1.364 python-asn1crypto 0.24.0 r0
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From 7461a3de38b66edbe2f5593f9bdab9f2704d32bc Mon Sep 17 00:00:00 2001
From: Hongxu Jia <hongxu.jia@windriver.com>
Date: Wed, 17 Aug 2016 04:06:34 -0400
Subject: [PATCH] grub module explicitly keeps symbole .module_license

While using oe-core toolchain to strip grub module 'all_video.mod',
it stripped symbol table:

-------------
root@localhost:~# objdump -t all_video.mod

all_video.mod: file format elf64-x86-64

SYMBOL TABLE:
no symbols
-------------

It caused grub to load module all_video failed.
-------------
grub> insmod all_video
error: no symbol table.
-------------
Tweak strip option to keep symbol .module_license could workaround the issue.

root@localhost:~# objdump -t all_video.mod

all_video.mod: file format elf64-x86-64

SYMBOL TABLE:
0000000000000000 l d .text 0000000000000000 .text
0000000000000000 l d .data 0000000000000000 .data
0000000000000000 l d .module_license 0000000000000000 .module_license
0000000000000000 l d .bss 0000000000000000 .bss
0000000000000000 l d .moddeps 0000000000000000 .moddeps
0000000000000000 l d .modname 0000000000000000 .modname

Upstream-Status: Pending

Signed-off-by: Hongxu Jia <hongxu.jia@windriver.com>
---
grub-core/genmod.sh.in | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

Index: grub-2.02/grub-core/genmod.sh.in
===================================================================
--- grub-2.02.orig/grub-core/genmod.sh.in
+++ grub-2.02/grub-core/genmod.sh.in
@@ -56,7 +56,7 @@ if test x@TARGET_APPLE_LINKER@ != x1; th
 if test x@platform@ != xemu; then
 @TARGET_STRIP@ --strip-unneeded \   
 -K grub_mod_init -K grub_mod_fini \  
-\-K _grub_mod_init -K _grub_mod_fini \  
+\-K _grub_mod_init -K _grub_mod_fini -K .module_license \   
-\-R .note.gnu.gold-version -R .note.GNU-stack \  
-\-R .note -R .comment -R .ARM.exidx $tmpfile || exit 1
 fi

1.366 libnss-nisplus 1.3 r0

1.367 ipcalc 0.2.0 r0
1.367.1 Available under license:

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1.372 moment 2.8.4

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That's all there is to it!

1.376 python-networkx 2.1 r0

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=======

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::

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NetworkX was originally written by Aric Hagberg, Dan Schult, and Pieter Swart, and has been developed with the help of many others. Thanks to everyone who has improved NetworkX by contributing code, bug reports (and fixes), documentation, and input on design, features, and the future of NetworkX.

Contributions
-------------

This section aims to provide a list of people and projects that have contributed to `networkx`. It is intended to be an *inclusive* list, and anyone who has contributed and wishes to make that contribution known is welcome to add an entry into this file. Generally, no name should be added to this list without the approval of the person associated with that name.

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A supplementary (but still incomplete) list of contributors is given by the list of names that have commits in `networkx`'s `git <http://git-scm.com>`_ repository. This can be obtained via:

```
git log --raw | grep "^Author: " | sort | uniq
```

A historical, partial listing of contributors and their contributions to some of the earlier versions of NetworkX can be found here <https://github.com/networkx/networkx/blob/886e790437bfcf30e9f58368829d483efef7a2acc/doc/source/reference/credits_old.rst>.
Original Authors

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| Dan Schult |
| Pieter Swart |

Contributors

Optionally, add your desired name and include a few relevant links. The order is partially historical, and now, mostly arbitrary.

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- Andre Weltisch

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Research Groups
~~~~~~~~~~~~~~~~

`networkx` acknowledges support from the following:

- `Center for Nonlinear Studies <http://cnls.lanl.gov>`_, Los Alamos National Laboratory, PI: Aric Hagberg

- `Open Source Programs Office <https://developers.google.com/open-source>`,
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- `Complexity Sciences Center`<http://csc.ucdavis.edu/>, Department of Physics, University of California-Davis, PI: James P. Crutchfield

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1.379 btrfs-tools 4.17.1 r0

1.380 bash 4.2 r6

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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:

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John
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Chet Ramey

--
``The lyf so short, the craft so long to lerne.`` - Chaucer

Chet Ramey, Case Western Reserve UniversityInternet: chet@po.CWRU.Edu

> 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. :-)  

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--------------------------------------------------------------------------

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

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That's all there is to it!
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#
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#
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# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string

        if self.num_errors:
            print('Errors: %d' % self.num_errors)

            for filename in self.filenames:
                print('    %s' % filename)

            raise

    if __name__ == '__main__':
        import sys
        import os

        if len(sys.argv) < 2:
            print('usage: update-copyright.py --this-year [directory]
                  update-copyright.py --this-year --quilt [directory]
                  update-copyright.py --this-year --quiet [directory]
                  update-copyright.py --version')
            sys.exit(1)

        this_year = False
        quilt = False
        quiet = False

        for arg in sys.argv[1:]:
            if arg == '--this-year':
                this_year = True
            elif arg == '--quilt':
                quilt = True
            elif arg == '--quiet':
                quiet = True
            elif arg == '--version':
                import __version__
                print(__version__)
                sys.exit(0)
            else:
                directory = arg

        if directory:
            if not os.path.isdir(directory):
                print('error: %s is not a valid directory' % directory)
                sys.exit(1)

            if not os.path.exists(directory):
sys.stderr.write (string + \"\n\")
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
def __init__ (self):
    self.skip_files = set()
    self.skip_dirs = set()
    self.skip_extensions = set()
    self.fossilised_files = set()
    self.own_files = set()

    self.skip_files |= set ([
        # Skip licence files.
        'COPYING',
        'COPYING.LIB',
        'COPYING3',
        'COPYING3.LIB',
        'LICENSE',
        'fdl.texi',
        'gpl_v3.texi',
        'fdl-1.3.xml',
        'gpl-3.0.xml',

        # Skip auto- and libtool-related files
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',
        'ltotptions.m4',
        'ltshugar.m4',
        'ltversion.m4',
        'lt--obsolete.m4',
        'missing',
        'mkdep',
        'mkinstalldirs',
        'move-if-change',
        'shlibpath.m4',
        'symlink-tree',
        'ylwrap',

        # Skip FSF mission statement, etc.
    ])}
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
return True
# Only touch current current ChangeLogs.
if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
    return True
return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:-0-9,\s]\s+and\s+[0-9]*'  

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w,.-]'  

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|\w.*')

        # Matches a full copyright notice:
        self.copyright_re = re.compile(  
            # 1: 'Copyright (C)', etc.
            '((C)c)opyright'  
            '[(Cc]opyright\s+\[(Cc)\]'  
            '[(Cc]opyright\s+\%'  
            '[(Cc]opyright\s+\&copy;'  
            '[(Cc]opyright\s+\@copyright\]'  
            'copyright = u"'  
            '\@set\s+\copyright[\w-\"]')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*([^\s]+\s+)(?:\s+)'  
        '@\s\s@value\{[^\}]*\}\s*b')

        # 3: 'by ', if used
        '\(by\s+\')?

        # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.texi).
        '\(' + name + '\(?\s?' + name + '\s+\)\)*')
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder

    self.holders[holder] = canon_form

    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)


def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
                return year
        raise self.BadYear (string)

def year_range (self, years):

year_list = [self.parse_year(year)
    for year in self.year_re.findall(years)]
assert len(year_list) > 0
return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2)].strip()
    if after_years != ':
        self.errors.report(pathname,
            'trailing characters in @set: '
            + after_years)
        return(False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match(line, match.start())
            assert match

            holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return(False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report(pathname,
                'unrecognised copyright holder: ' + holder)
            return(False, orig_line, next_line)

        else:
            # See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None

with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
for line in file:
    while line:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                             file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed
        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname,
                                'unrecognised copyright: %s'
                                % line.strip())
            lines.append (line)
        line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                os.fchmod (file.fileno(), mode)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):

                    # If something changed, write the new file out.
                    if changed and self.errors.ok():
                        tmp_pathname = pathname + '.tmp'
                        with open (tmp_pathname, 'w') as file:
                            for line in lines:
                                file.write (line)
                            os.fchmod (file.fileno(), mode)
                        if self.use_quilt:
                            subprocess.call (['quilt', 'add', pathname])
                        os.rename (tmp_pathname, pathname)
sys.stdout.write('Skipping %s
% os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', '"quilt add" files before changing them',
        self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
        self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % sys.argv[0])
    format = '%-15s %s

    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('"nDirectories:\n"

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)
def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)
class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
        )

        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        )

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )

        self.fossilised_files |= set (
            # Old news won't be updated.
            'ONEWS',
        )

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_extensions |= set (
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    )
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([^)
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([^)
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set([^)
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([^)
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
})

self.own_files |= set (
    # Contains markup around the copyright owner.
    'spine.xml',
})

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('NVIDIA Corporation')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecmnumber')
        # llvm is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgomp is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libobjc',
    'libobjc',
    'libbssmp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright © copyright(} 2007 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
@c This file is intended to be included in another file.

@display
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@heading TERMS AND CONDITIONS

@enumerate 0
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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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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
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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
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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 interface-compatible with the version that the work was made with.

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.

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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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!
" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
" =========================================================================
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
." de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1
.. " de Ve " End verbatim text
.ft R
Set up some character translations and predefined strings. \!* will give an unbreakable dash, \!*{PI will give pi, \!*{L" will give a left double quote, and \!*{R" will give a right double quote. \!*{C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \!*{C' and \!*{C` expand to ’ in nroff, nothing in troff, for use with C<<.

.tr \!*W-
.ds C+ C\!*\-1v'\-1p'\s-2+1p'+/\s0\v'\-1p'
.ie n \{
    ds -- \!*W-
    ds PI pi
    if (\!n(.H=4u)&(1m=24u)) .ds -- \!*W\-12u\*(W\h'\-12u\v'1p'
    if (\!n(.H=4u)&(1m=20u)) .ds -- \!*W\h'\-12u\*(W\h'\-8u\v'1p'
    .ds L" "
    .ds R" "
    .ds C" "
    .ds C` "
    .ds C' "
\}
.el \{
    ds -- \|{em]\{.
    ds PI \*p
    .ds L" 
    .ds R" 
    .ds C
    .ds C'
\}
.

Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(aq
.el .ds Aq \'
.

If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.
.
Avoid warning from groff about undefined register 'F'.
.de IX
.. if !\!nF .nr F 0
.. if \!nF>0 \{
    de IX
    tm Index:\\$1\!\t\n%\$1\\$2"
.. if !\!nF==2 \{
    .nr % 0
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

Fudge factors for nroff and troff

if n \{
  ds #H 0
  ds #V .8m
  ds #F .3m
  ds #[ M1
  ds #] ][
\}

if t \{
  ds #H ((1u-\\n(.fu%2u))*.13m)
  ds #V .6m
  ds #F 0
  ds #[ &
  ds #] &
\}

Simple accents for nroff and troff

if n \{
  ds ' 
  ds ` 
  ds ^ 
  ds , 
  ds ~ 
  ds / 
\}

if t \{
  ds \k:he-(\\n (.wu*8/10-(#H))\\n:u'
  ds \k:he-(\\n (.wu*8/10-(#H))\\n:u'
  ds \k:he-(\\n (.wu*10/11-(#H))\\n:u'
  ds \k:he-(\\n (.wu*8/10))\\n:u'
  ds \k:he-(\\n (.wu*8/10))\\n:u'
  ds \k:he-(\\n (.wu*10-(#H))\\n:u'
\}

Troff and (daisy-wheel) nroff accents

if \{
  ds \k:he-(\\n (.wu*8/10-(#H))\\n:u'
  ds 8 \k:he-(\\n (.wu*8/10-(#H))\\n:u'
  ds o \k:he-(\\n (.wu*8/10-(#H))\\n:u'
  ds d- \k:he-(\\n (.wu*8/10-(#H))\\n:u'
  ds D- \k:he-\\n:D'u\'w'-.11m'\\n:u'
  ds Th \k:he-(\\n (.wu*8/10-(#H))\\n:u'
  ds Th \k:he-(\\n (.wu*8/10-(#H))\\n:u'
  ds ae a\k:he-(\\n (.wu*8/10)'e
  ds Ae A\k:he-(\\n (.wu*8/10)'E
" corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-\#H)'s-2\u~\d\s+2\h|\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-\#H)'\v'-.4\m'-\v'.4\m'|\n:u'
. \' for low resolution devices (crt and lpr)
.if \n(H>23 .if \n(V>19 \\n. ds : e
. ds 8 ss
. ds o a
. ds d- dlh'-1\(ga
. ds D- Dh'-1\(hy
. ds th \'o'bp'
. ds Th \'o'LP'
. ds ae ae
. ds Ae AE
.]{
.rm #! #] #H #V #F C
" ========================================================================
" IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
.\ For nroff, turn off justification. Always turn off hyphenation; it makes
.\ way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
&        Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
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RE

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/* Definitions for BSD assembler syntax for Intel 386
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   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
   #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
   fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (”.comm " , (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (”.lcomm " , (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
   ( fputs (”.lcomm " , (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
   if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

---

Open Source Used In Callisto_PSRIT 1.3.2 4165
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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**1.384 keymaps 1.0 r31**

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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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Written by: Philip Hazel
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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.

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   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.
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.

e) 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 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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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.

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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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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.

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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.

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.

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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.

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.

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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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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