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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/uic: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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/*
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 */

/*!
 * \file
 * \note
 * Notice to programmers: Do not use this code as an example of how to
 * use the ISC library to perform DNS lookups. Dig and Host both operate
 * on the request level, since they allow fine-tuning of output and are
 * intended as debugging tools. As a result, they perform many of the
 * functions which could be better handled using the dns_resolver
 * functions in most applications.
 */

#include <config.h>

#include <inttypes.h>
#include <stdbool.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <limits.h>
#include <errno.h>

#ifdef HAVE_LOCALE_H
#include <locale.h>
#endif

#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
#include <idn/result.h>
#include <idn/log.h>
#include <idn/resconf.h>
#include <idn/api.h>
#endif
#ifdef WITH_LIBIDN2
#include <idn2.h>
#endif
#endif

Open Source Used In vEdge 20.1 20.1
#endif
#endif /* WITH_IDN_SUPPORT */

#include <dns/byaddr.h>
#ifdef DIG_SIGCHASE
#include <dns/callbacks.h>
#include <dns/dnssec.h>
#include <dns/ds.h>
#include <dns/master.h>
#include <dns/nsec.h>
#include <isc/random.h>
#include <ctype.h>
#endif
#include <dns/fixedname.h>
#include <dns/log.h>
#include <dns/message.h>
#include <dns/name.h>
#include <dns/rcode.h>
#include <dns/rdata.h>
#include <dns/rdataclass.h>
#include <dns/rdatastruct.h>
#include <dns/rdata.h>
#include <dns/rdatalist.h>
#include <dns/rdataset.h>
#include <dns/rdatalstruct.h>
#include <dns/rdatatype.h>
#include <dns/result.h>
#include <dns/tsig.h>

#include <dst/dst.h>
#include <dst/result.h>

#include <isc/app.h>
#include <isc/base64.h>
#include <isc/entropy.h>
#include <isc/file.h>
#include <isc/hex.h>
#include <isc/lang.h>
#include <isc/log.h>
#include <isc/netaddr.h>
#include <isc/netdb.h>
#include <isc/parseint.h>
#include <isc/print.h>
#include <isc/random.h>
#include <isc/result.h>
#include <isc/safe.h>
#include <isc/serial.h>
#include <isc/sockaddr.h>
#include <isc/string.h>
#include <isc/task.h>
#include <isc/timer.h>
#include <isc/types.h>
#include <isc/util.h>

#include <pk11/site.h>

#include <isccfg/namedconf.h>

#include <lwres/lwres.h>
#include <lwres/net.h>

#include <bind9/getaddresses.h>

#include <dig/dig.h>

#if ! defined(NS_INADDRSZ)
#define NS_INADDRSZ 4
#endif

#if ! defined(NS_IN6ADDRSZ)
#define NS_IN6ADDRSZ 16
#endif

static lwres_context_t *lwctx = NULL;
static lwres_conf_t *lwconf;

dig_lookuplist_t lookup_list;
dig_serverlist_t server_list;
dig_searchlistlist_t search_list;

bool check_ra = false,
have_ipv4 = false,
have_ipv6 = false,
specified_source = false,
free_now = false,
cancel_now = false,
usesearch = false,
showsearch = false,
qr = false,
is_dst_up = false,
keep_open = false,
verbose = false;
in_port_t port = 53;
unsigned int timeout = 0;
unsigned int extrabytes;
isc_mem_t *mctx = NULL;
isc_log_t *lctx = NULL;
isc_taskmgr_t *taskmgr = NULL;
isc_task_t *global_task = NULL;
isc_timermgr_t *timermgr = NULL;
isc_socketmgr_t *socketmgr = NULL;
isc_sockaddr_t bind_address;
int sendcount = 0;
int recvcount = 0;
int sockcount = 0;
int ndots = -1;
int tries = 3;
int lookup_counter = 0;

static char servercookie[256];

#ifdef WITH_IDN_SUPPORT
static void idn_initialize(void);
static isc_result_t idn_locale_to_ace(const char *from,
char *to,
size_t tolen);
#endif /* WITH_IDN_SUPPORT */

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t idn_ace_to_locale(const char *from,
char *to,
size_t tolen);
static isc_result_t output_filter(isc_buffer_t *buffer,
unsigned int used_org,
bool absolute);
#define MAXDLEN 256
#endif /* WITH_IDN_OUT_SUPPORT */

#ifdef WITH_IDNKIT
int idnoptions = 0;
#endif
#endif /* WITH_IDN_OUT_SUPPORT */

isc_socket_t *keep = NULL;
isc_sockaddr_t keepaddr;

/*%
 * Exit Codes:
 *
*\li0 Everything went well, including things like NXDOMAIN
*\li1 Usage error
*/
*li7 Got too many RR's or Names
*li8 Couldn't open batch file
*li9 No reply from server
*li10 Internal error
*
int exitcode = 0;
int fatalexit = 0;
char keynametext[MXNAME];
char keyfile[MXNAME] = "";
char keysecret[MXNAME] = "";
unsigned char cookie_secret[33];
unsigned char cookie[8];
dns_name_t *hmacname = NULL;
unsigned int digestbits = 0;
isc_buffer_t *namebuf = NULL;
dns_tsigkey_t *tsigkey = NULL;
bool validated = true;
isc_entropy_t *entp = NULL;
isc_mempool_t *commctx = NULL;
bool debugging = false;
bool debugtiming = false;
bool memdebugging = false;
char *progname = NULL;
isc_mutex_t lookup_lock;
dig_lookup_t *current_lookup = NULL;

#ifdef DIG_SIGCHASE

isc_result_t get_trusted_key(void);
dns_rdataset_t * sigchase_scannamendns_rdataset_t type,
    dns_rdatatype_t covers,
    bool *lookedup,
    dns_name_t *rdata_name);
dns_rdataset_t * chase_scannamename dns_message_t *msg,
    dns_rdataset_t *name,
    dns_rdataset_t *type,
    dns_rdatatype_t covers,
    int section);
isc_result_t advanced_rrsearch(dns_rdataset_t **rdataset,
    dns_name_t *name,
    dns_rdatatype_t type,
    dns_rdatatype_t covers,
    bool *lookedup);
isc_result_t sigchase_verify_sig_key(dns_name_t *name,
    dns_rdataset_t *rdataset,
    dst_key_t* dnsseckey,
    dns_rdataset_t *sigrdataset);
isc_result_t sigchase_verify_sigidns_name_t *name,
dns_rdataset_t *rdataset,
dns_rdataset_t *keyrdataset,
dns_rdataset_t *sigrdataset);
isc_result_t sigchase_verify_ds(dns_name_t *name,
dns_rdataset_t *keyrdataset,
dns_rdataset_t *dsrdataset);
void sigchase(dns_message_t *msg);
void print_rdata(dns_rdata_t *rdata, isc_mem_t *mctx);
void print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset);
void dup_name(dns_name_t *source, dns_name_t *target);
void free_name(dns_name_t *name);
void dump_database(void);
void dump_database_section(dns_message_t *msg, int section);
dns_rdataset_t * search_type(dns_name_t *name, dns_rdatatype_t type,
dns_rdatatype_t covers);
isc_result_t contains_trusted_key(dns_name_t *name,
dns_rdataset_t *rdataset,
dns_rdataset_t *sigrdataset);
void print_type(dns_rdatatype_t type);
isc_result_t prove_nx_domain(dns_message_t * msg,
  dns_name_t * name,
  dns_name_t * rdata_name,
  dns_rdataset_t ** rdataset,
  dns_rdataset_t ** sigrdataset);
isc_result_t prove_nx_type(dns_message_t * msg, dns_name_t *name,
dns_rdataset_t *nsec,
dns_rdataclass_t rdclass,
dns_rdatatype_t type,
dns_name_t * rdata_name,
dns_rdataset_t ** rdataset,
dns_rdataset_t ** sigrdataset);
isc_result_t prove_nx(dns_message_t * msg, dns_name_t * name,
dns_rdataclass_t rdclass,
dns_rdatatype_t type,
dns_name_t * rdata_name,
dns_rdataset_t ** rdataset,
dns_rdataset_t ** sigrdataset);
static void nameFromString(const char *str, dns_name_t *p_ret);
int inf_name(dns_name_t * name1, dns_name_t * name2);
isc_result_t removetmpkey(const char *file);
void clean_trustedkey(void);
isc_result_t insert_trustedkey(void *arg, dns_name_t *name,
  dns_rdataset_t *rdataset);
#if DIG_SIGCHASE_BU
isc_result_t getneededrr(dns_message_t *msg);
void sigchase_bottom_up(dns_message_t *msg);
void sigchase_bu(dns_message_t *msg);
#endif
#if DIG_SIGCHASE_TD
isc_result_t initialization(dns_name_t *name);
isc_result_t prepare_lookup(dns_name_t *name);
isc_result_t grandfather_pb_test(dns_name_t * zone_name,
    dns_rdataset_t *sigrdataset);
isc_result_t child_of_zone(dns_name_t *name,
    dns_name_t *zone_name,
    dns_name_t *child_name);
void sigchase_td(dns_message_t *msg);
#endif
char trustedkey[MXNAME] = "";

dns_rdataset_t *chase_rdataset = NULL;
dns_rdataset_t *chase_sigrdataset = NULL;
dns_rdataset_t *chase_dsrdataset = NULL;
dns_rdataset_t *chase_sigsdataset = NULL;
dns_rdataset_t *chase_keyrdataset = NULL;
dns_rdataset_t *chase_sigkeyrdataset = NULL;
dns_rdataset_t *chase_nsrdataset = NULL;

dns_name_t chase_name; /* the query name */
#else DIG_SIGCHASE_TD
/*
   * the current name is the parent name when we follow delegation
   */
dns_name_t chase_current_name;
#else DIG_SIGCHASE_BU
/*
   * the child name is used for delegation (NS DS responses in AUTHORITY section)
   */
dns_name_t chase_authority_name;
#endif
bool chase_siglookedup = false;
bool chase_keylookedup = false;
bool chase_sigkeylookedup = false;
bool chase_dslookedup = false;
bool chase_sigslookedup = false;
#if DIG_SIGCHASE_TD
bool chase_nslookedup = false;
#else DIG_SIGCHASE_BU
bool chase_nslookedup = false;
#endif
bool delegation_follow = false;
bool grandfather_pb = false;
bool have_response = false;
bool have_delegation_ns = false;
dns_message_t * error_message = NULL;
#endif

bool dsvalidating = false;
bool chase_name_dup = false;

ISC_LIST(dig_message_t) chase_message_list;
ISC_LIST(dig_message_t) chase_message_list2;

#define MAX_TRUSTED_KEY 5
typedef struct struct_trusted_key_list {
    dst_key_t * key[MAX_TRUSTED_KEY];
    int nb_tk;
} struct_tk_list;

struct_tk_list tk_list = { {NULL, NULL, NULL, NULL, NULL}, 0};
#endif

#define DIG_MAX_ADDRESSES 20

/*
 * Apply and clear locks at the event level in global task.
 * Can I get rid of these using shutdown events?  XXX
 */
#define LOCK_LOOKUP {
    debug("lock_lookup %s:%d", __FILE__, __LINE__);
    check_result(isc_mutex_lock((&lookup_lock)), "isc_mutex_lock");
    debug("success");
}
#define UNLOCK_LOOKUP {
    debug("unlock_lookup %s:%d", __FILE__, __LINE__);
    check_result(isc_mutex_unlock((&lookup_lock)), "isc_mutex_unlock");
}

/* dynamic callbacks */

#ifdef DIG_SIGCHASE
isc_result_t
(*dighost_printrdataset)(dns_name_t *owner_name, dns_rdataset_t *rdataset,
    isc_buffer_t *target);
#endif

isc_result_t
do {
    res = strsep(stringp, delim);
    if (res == NULL)
        break;
} while (*res == '\0');
return (res);
}

static int
count_dots(char *string) {
    char *s;
    int i = 0;

    s = string;
    while (*s != '\0') {
        if (*s == '.
            i++;
            s++;
        }
    return (i);
    }

static void
hex_dump(isc_buffer_t *b) {
    unsigned int len, i;
    isc_region_t r;

    isc_buffer_usedregion(b, &r);

    printf("%u bytes\n", r.length);
    for (len = 0; len < r.length; len++) {
        printf("%02x ", r.base[len]);
        if (len % 16 == 15) {
            fputs("         ", stdout);
            for (i = len - 15; i <= len; i++) {
                if (r.base[i] >= '!' && r.base[i] <= '}
                    putchar(r.base[i]);
                else
                    putchar('.
            }
            printf("\n");
        }
        if (len % 16 != 0) {
            for (i = len; (i % 16) != 0; i++)
                fputs("   ", stdout);
            fputs("         ", stdout);
        }
    }
}
for (i = ((len>>4)<<4); i < len; i++) {
if (r.base[i] >= '!') & & r.base[i] <= '}
putchar(r.base[i]);
else
putchar('.');
}
printf("un");
}

/*
 * Append 'len' bytes of 'text' at '*p', failing with
 * ISC_R_NOSPACE if that would advance p past 'end'.
 */
static isc_result_t
append(const char *text, size_t len, char **p, char *end) {
if (*p + len > end)
return (ISC_R_NOSPACE);
memmove(*p, text, len);
*p += len;
return (ISC_R_SUCCESS);
}

static isc_result_t
reverse_octets(const char *in, char **p, char *end) {
const char *dot = strchr(in, '.');
size_t len;
if (dot != NULL) {
isc_result_t result;
result = reverse_octets(dot + 1, p, end);
if (result != ISC_R_SUCCESS)
return (result);
result = append('.', 1, p, end);
if (result != ISC_R_SUCCESS)
return (result);
len = (int) (dot - in);
} else {
len = (int) strlen(in);
}
return (append(in, len, p, end));
}

isc_result_t
get_reverse(char *reverse, size_t len, char *value, bool ip6_int,
    bool strict)
{
int r;
isc_result_t result;
isc_netaddr_t addr;

addr.family = AF_INET6;
if (inet_pton(AF_INET6, value, &addr.type.in6) > 0) {
    /* This is a valid IPv6 address. */
    dns_fixedname_t fname;
    dns_name_t *name;
    unsigned int options = 0;
    name = dns_fixedname_initname(&fname);
    result = dns_byaddr_createptrname2(&addr, options, name);
    if (result != ISC_R_SUCCESS)
        return (result);
    dns_name_format(name, reverse, (unsigned int)len);
    return (ISC_R_SUCCESS);
} else {
    /* Not a valid IPv6 address. Assume IPv4.
     * If 'strict' is not set, construct the
     * in-addr.arpa name by blindly reversing
     * octets whether or not they look like integers,
     * so that this can be used for RFC2317 names
     * and such.
     */
    char *p = reverse;
    char *end = reverse + len;
    if (strict && inet_pton(AF_INET, value, &addr.type.in) != 1)
        return (DNS_R_BADDOTTEDQUAD);
    result = reverse_octets(value, &p, end);
    if (result != ISC_R_SUCCESS)
        return (result);
    /* Append .in-addr.arpa. and a terminating NUL. */
    result = append(".in-addr.arpa.", 15, &p, end);
    if (result != ISC_R_SUCCESS)
        return (result);
    return (ISC_R_SUCCESS);
}

void
fatal(const char *format, ...) {
    va_list args;

    fflush(stdout);
    fprintf(stderr, "%s: ", progname);
    va_start(args, format);
    vfprintf(stderr, format, args);
    va_end(args);

    return;
}
va_start(args, format);
vfprintf(stderr, format, args);
va_end(args);
fprintf(stderr, "n");
if (exitcode < 10)
exitcode = 10;
if (fatalexit != 0)
exitcode = fatalexit;
exit(exitcode);
}

void
debug(const char *format, ...) {
    va_list args;
    isc_time_t t;

    if (debugging) {
        fflush(stdout);
        if (debugtiming) {
            TIME_NOW(&t);
            fprintf(stderr, "%u.%06u: %s",
                    isc_time_seconds(&t),
                    isc_time_nanoseconds(&t) / 1000);
            }
    }
    va_start(args, format);
vfprintf(stderr, format, args);
va_end(args);
fprintf(stderr, "n");
}

void
cHECK_result(isc_result_t result, const char *msg) {
    if (result != ISC_R_SUCCESS) {
        fatal("%s: %s", msg, isc_result_totext(result));
    }
}

/*
 * Create a server structure, which is part of the lookup structure.
 * This is little more than a linked list of servers to query in hopes
 * of finding the answer the user is looking for
 */
dig_server_t *
make_server(const char *servname, const char *userarg) {
    dig_server_t *srv;

    REQUIRE(servname != NULL);
debug("make_server(%s)", servname);
srv = isc_mem_allocate(mctx, sizeof(struct dig_server));
if (srv == NULL)
fatal("memory allocation failure in %s:%d",
       __FILE__, __LINE__);
strlcpy(srv->servername, servname, MXNAME);
strlcpy(srv->userarg, userarg, MXNAME);
ISC_LINK_INIT(srv, link);
return (srv);
}

static int
addr2af(int lwresaddrtype)
{
    int af = 0;

    switch (lwresaddrtype) {
    case LWRES_ADDRTYPE_V4:
        af = AF_INET;
        break;

    case LWRES_ADDRTYPE_V6:
        af = AF_INET6;
        break;
    }

    return (af);
}

/*%
 * Create a copy of the server list from the lwres configuration structure.
 * The dest list must have already had ISC_LIST_INIT applied.
 *%
*/

static void
copy_server_list(lwres_conf_t *confdata, dig_serverlist_t *dest) {
    dig_server_t *newsrv;
             sizeof("%4000000000") ];
    int af;
    int i;

    debug("copy_server_list()");
    for (i = 0; i < confdata->nsnext; i++) {
        af = addr2af(confdata->nameservers[i].family);

        if (af == AF_INET && !have_ipv4)
            continue;
        if (af == AF_INET6 && !have_ipv6)
lwres_net_ntop(af, confdata->nameservers[i].address, 
    tmp, sizeof(tmp));
if (af == AF_INET6 && confdata->nameservers[i].zone != 0) {
    char buf[sizeof("%u")];
    snprintf(buf, sizeof(buf), "%%%u", 
        confdata->nameservers[i].zone);
    strlcat(tmp, buf, sizeof(tmp));
}
newsrv = make_server(tmp, tmp);
ISC_LINK_INIT(newsrv, link);
ISC_LIST_ENQUEUE(*dest, newsrv, link);
}

void
flush_server_list(void) {
    dig_server_t *s, *ps;

    debug("flush_server_list()");
    s = ISC_LIST_HEAD(server_list);
    while (s != NULL) {
        ps = s;
        s = ISC_LIST_NEXT(s, link);
        ISC_LIST_DEQUEUE(server_list, ps, link);
        isc_mem_free(mctx, ps);
    }
}

void
set_nameserver(char *opt) {
    isc_result_t result;
    isc_sockaddr_t sockaddrs[DIG_MAX_ADDRESSES];
    isc_netaddr_t netaddr;
    int count, i;
    dig_server_t *srv;
    char tmp[ISC_NETADDR_FORMATSIZE];

    if (opt == NULL)
        return;

    result = bind9_getaddresses(opt, 0, sockaddrs, 
        DIG_MAX_ADDRESSES, &count);
    if (result != ISC_R_SUCCESS)
        fatal("couldn't get address for '%s': %s", 
            opt, isc_result_totext(result));
flush_server_list();

for (i = 0; i < count; i++) {
    isc_netaddr_fromsockaddr(&netaddr, &sockaddrs[i]);
    isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
    srv = make_server(tmp, opt);
    if (srv == NULL)
        fatal("memory allocation failure");
    ISC_LIST_APPEND(server_list, srv, link);
}

static isc_result_t
add_nameserver(lwres_conf_t *confdata, const char *addr, int af) {
    int i = confdata->nsnext;

    if (confdata->nsnext >= LWRES_CONFMAXNAMESERVERS)
        return (ISC_R_FAILURE);

    switch (af) {
    case AF_INET:
        confdata->nameservers[i].family = LWRES_ADDRTYPE_V4;
        confdata->nameservers[i].length = NS_INADDRSZ;
        break;
    case AF_INET6:
        confdata->nameservers[i].family = LWRES_ADDRTYPE_V6;
        confdata->nameservers[i].length = NS_IN6ADDRSZ;
        break;
    default:
        return (ISC_R_FAILURE);
    }

    if (lwres_net_pton(af, addr, &confdata->nameservers[i].address) == 1) {
        confdata->nsnext++;
        return (ISC_R_SUCCESS);
    }
    return (ISC_R_FAILURE);
}

/*
 * Produce a cloned server list.  The dest list must have already had
 * ISC_LIST_INIT applied.
 */
void
clone_server_list(dig_serverlist_t src, dig_serverlist_t *dest) {
    dig_server_t *srv, *newsrv;
debug("clone_server_list()");
srv = ISC_LIST_HEAD(src);
while (srv != NULL) {
    newsrv = make_server(srv->servername, srv->userarg);
    ISC_LINK_INIT(newsrv, link);
    ISC_LIST_ENQUEUE(*dest, newsrv, link);
    srv = ISC_LIST_NEXT(srv, link);
}

/*%
* Create an empty lookup structure, which holds all the information needed
* to get an answer to a user's question. This structure contains two
* linked lists: the server list (servers to query) and the query list
* (outstanding queries which have been made to the listed servers).
*/
dig_lookup_t *
make_empty_lookup(void) {
    dig_lookup_t *looknew;

debug("make_empty_lookup()");

INSIST(!free_now);

looknew = isc_mem_allocate(mctx, sizeof(struct dig_lookup));
if (looknew == NULL)
fatal("memory allocation failure in %s:%d",
   __FILE__, __LINE__);
looknew->pending = true;
looknew->textname[0] = 0;
looknew->cmdline[0] = 0;
looknew->rdtype = dns_rdatatype_a;
looknew->qrdtype = dns_rdatatype_a;
looknew->rdclass = dns_rdataclass_in;
looknew->rdtypeset = false;
looknew->rdclassset = false;
looknew->sendspace = NULL;
looknew->sendmsg = NULL;
looknew->name = NULL;
looknew->oname = NULL;
looknew->xfr_q = NULL;
looknew->current_query = NULL;
looknew->doing_xfr = false;
looknew->ixfr_serial = 0;
looknew->trace = false;
looknew->trace_root = false;
looknew->identify = false;
looknew->identify_previous_line = false;
looknew->ignore = false;
looknew->servfail_stops = true;
looknew->besteffort = true;
looknew->dnssec = false;
looknew->ednsflags = 0;
looknew->opcode = dns_opcode_query;
looknew->expire = false;
looknew->nsid = false;
looknew->header_only = false;
looknew->sendcookie = false;
looknew->seenbadcookie = false;
looknew->badcookie = true;
#ifdef WITH_IDN_SUPPORT
looknew->idnin = isatty(1)?(getenv("IDN_DISABLE") == NULL):false;
#else
looknew->idnin = false;
#endif
#ifdef WITH_IDN_OUT_SUPPORT
looknew->idnout = looknew->idnin;
#else
looknew->idnout = false;
#endif
#ifdef DIG_SIGCHASE
looknew->sigchase = false;
#endif
#ifdef DIG_SIGCHASE_TD
looknew->do_topdown = false;
looknew->trace_root_sigchase = false;
looknew->rdtype_sigchaseset = false;
looknew->rdtype_sigchase = dns_rdatatype_any;
looknew->qrdtype_sigchase = dns_rdatatype_any;
looknew->rdclass_sigchase = dns_rdataclass_in;
looknew->rdclass_sigchaseset = false;
#endif
looknew->udpsize = 0;
looknew->edns = -1;
looknew->recurse = true;
looknew->aaonly = false;
looknew->adflag = false;
looknew->cdflag = false;
looknew->print_unknown_format = false;
looknew->zflag = false;
looknew->ns_search_only = false;
looknew->origin = NULL;
looknew->tsigctx = NULL;
looknew->querysig = NULL;
looknew->retries = tries;
looknew->nsfound = 0;
looknew->tcp_mode = false;
looknew->tcp_mode_set = false;
looknew->ip6_int = false;
looknew->comments = true;
looknew->stats = true;
looknew->section_question = true;
looknew->section_answer = true;
looknew->section_authority = true;
looknew->section_additional = true;
looknew->new_search = false;
looknew->done_as_is = false;
looknew->need_search = false;
looknew->ecs_addr = NULL;
looknew->cookie = NULL;
looknew->ednsopts = NULL;
looknew->ednsoptscnt = 0;
looknew->ednsneg = true;
looknew->mapped = true;
looknew->dscp = -1;
looknew->eoferr = 0;
dns_fixedname_init(&looknew->fdomain);
ISC_LINK_INIT(looknew, link);
ISC_LIST_INIT(looknew->q);
ISC_LIST_INIT(looknew->connecting);
ISC_LIST_INIT(looknew->my_server_list);
return (looknew);
}

#define EDNSOPT_OPTIONS 100U

static void
cloneopts(dig_lookup_t *looknew, dig_lookup_t *lookold) {
    size_t len = sizeof(looknew->ednsopts[0]) * EDNSOPT_OPTIONS;
    size_t i;
    looknew->ednsopts = isc_mem_allocate(mctx, len);
    if (looknew->ednsopts == NULL)
fatal("out of memory");
    for (i = 0; i < EDNSOPT_OPTIONS; i++) {
looknew->ednsopts[i].code = 0;
looknew->ednsopts[i].length = 0;
looknew->ednsopts[i].value = NULL;
    }
    looknew->ednsoptscnt = 0;
    if (lookold == NULL || lookold->ednsopts == NULL)
        return;
    for (i = 0; i < lookold->ednsoptscnt; i++) {
len = lookold->ednsopts[i].length;
    }
if (len != 0) {
    INSIST(lookold->ednsopts[i].value != NULL);
    looknew->ednsopts[i].value =
        isc_mem_allocate(mctx, len);
    if (looknew->ednsopts[i].value == NULL)
        fatal("out of memory");
    memmove(looknew->ednsopts[i].value, 
            lookold->ednsopts[i].value, len);
} 
looknew->ednsopts[i].code = lookold->ednsopts[i].code;
looknew->ednsopts[i].length = len;
} 
looknew->ednsoptscnt = lookold->ednsoptscnt;
}

/*% */
/* Clone a lookup, perhaps copying the server list.  This does not clone */
/* the query list, since it will be regenerated by the setup_lookup() */
/* function, nor does it queue up the new lookup for processing. */
/* Caution: If you don't clone the servers, you MUST clone the server */
/* list separately from somewhere else, or construct it by hand. */
/* */
dig_lookup_t *
clone_lookup(dig_lookup_t *lookold, bool servers) {
    dig_lookup_t *looknew;

dbg("clone_lookup()");

    INSIST(!free_now);

    looknew = make_empty_lookup();
    INSIST(looknew != NULL);
    strlcpy(looknew->textname, lookold->textname, MXNAME);
#if DIG_SIGCHASE_TD
    strlcpy(looknew->textnamesigchase, lookold->textnamesigchase, MXNAME);
#endif
    strlcpy(looknew->cmdline, lookold->cmdline, MXNAME);
    looknew->textname[MXNAME-1] = 0;
    looknew->rdtype = lookold->rdtype;
    looknew->qrdtype = lookold->qrdtype;
    looknew->rdclass = lookold->rdclass;
    looknew->rdtypeset = lookold->rdtypeset;
    looknew->rdclassset = lookold->rdclassset;
    looknew->doing_xfr = lookold->doing_xfr;
    looknew->ixfr_serial = lookold->ixfr_serial;
    looknew->trace = lookold->trace;
    looknew->trace_root = lookold->trace_root;
    looknew->identify = lookold->identify;
looknew->identify_previous_line = lookold->identify_previous_line;
looknew->ignore = lookold->ignore;
looknew->servfail_stops = lookold->servfail_stops;
looknew->besteffort = lookold->besteffort;
looknew->dnssec = lookold->dnssec;
looknew->ednsflags = lookold->ednsflags;
looknew->opcode = lookold->opcode;
looknew->expire = lookold->expire;
looknew->nsid = lookold->nsid;
looknew->header_only = lookold->header_only;
looknew->sendcookie = lookold->sendcookie;
looknew->seenbadcookie = lookold->seenbadcookie;
looknew->badcookie = lookold->badcookie;
looknew->cookie = lookold->cookie;
if (lookold->ednsopts != NULL) {
    cloneopts(looknew, lookold);
} else {
    looknew->ednsopts = NULL;
    looknew->ednsoptscnt = 0;
}
looknew->ednsneg = lookold->ednsneg;
looknew->mapped = lookold->mapped;
looknew->idnin = lookold->idnin;
looknew->idnout = lookold->idnout;
#ifdef DIG_SIGCHASE
looknew->sigchase = lookold->sigchase;
#endif
looknew->do_topdown = lookold->do_topdown;
looknew->trace_root_sigchase = lookold->trace_root_sigchase;
looknew->rdtype_sigchaseset = lookold->rdtype_sigchaseset;
looknew->rdtype_sigchase = lookold->rdtype_sigchase;
looknew->qrdtype_sigchase = lookold->qrdtype_sigchase;
looknew->rdclass_sigchase = lookold->rdclass_sigchase;
looknew->rdclass_sigchaseset = lookold->rdclass_sigchaseset;
#endif
looknew->udpsize = lookold->udpsize;
looknew->edns = lookold->edns;
looknew->recurse = lookold->recurse;
looknew->aaonly = lookold->aaonly;
looknew->adflag = lookold->adflag;
looknew->cdflag = lookold->cdflag;
looknew->print_unknown_format = lookold->print_unknown_format;
looknew->zflag = lookold->zflag;
looknew->ns_search_only = lookold->ns_search_only;
looknew->tcp_mode = lookold->tcp_mode;
looknew->tcp_mode_set = lookold->tcp_mode_set;
looknew->comments = lookold->comments;
looknew->stats = lookold->stats;
looknew->section_question = lookold->section_question;
looknew->section_answer = lookold->section_answer;
looknew->section_authority = lookold->section_authority;
looknew->section_additional = lookold->section_additional;
looknew->origin = lookold->origin;
looknew->retries = lookold->retries;
looknew->tsigctx = NULL;
looknew->need_search = lookold->need_search;
looknew->done_as_is = lookold->done_as_is;
looknew->dscp = lookold->dscp;
looknew->eoferr = lookold->eoferr;

if (lookold->ecs_addr != NULL) {
    size_t len = sizeof(isc_sockaddr_t);
    looknew->ecs_addr = isc_mem_allocate(mctx, len);
    if (looknew->ecs_addr == NULL)
        fatal("out of memory");
    memmove(looknew->ecs_addr, lookold->ecs_addr, len);
}

dns_name_copy(dns_fixedname_name(&lookold->fdomain),
              dns_fixedname_name(&looknew->fdomain), NULL);

if (servers)
    clone_server_list(lookold->my_server_list,
                     &looknew->my_server_list);
return (looknew);
}

/*%*
 * Requeue a lookup for further processing, perhaps copying the server
 * list.  The new lookup structure is returned to the caller, and is
 * queued for processing.  If servers are not cloned in the requeue, they
 * must be added before allowing the current event to complete, since the
 * completion of the event may result in the next entry on the lookup
 * queue getting run.
 */

dig_lookup_t *
requeue_lookup(dig_lookup_t *lookold, bool servers) {
    dig_lookup_t *looknew;

debug("requeue_lookup()");

    lookup_counter++;
    if (lookup_counter > LOOKUP_LIMIT)
        fatal("too many lookups");
looknew = clone_lookup(lookold, servers);
INSIST(looknew != NULL);

debug("before insertion, init@%p -> %p, new@%p -> %p",
      lookold, lookold->link.next, looknew, looknew->link.next);
ISC_LIST_PREPEND(lookup_list, looknew, link);
dump("after insertion, init -> %p, new = %p, new -> %p",
     lookold, looknew, looknew->link.next);
return (looknew);
}

void
setup_text_key(void) {
  isc_result_t result;
  dns_name_t keyname;
  isc_buffer_t secretbuf;
  unsigned int secretsize;
  unsigned char *secretstore;

dump("setup_text_key()");
result = isc_buffer_allocate(mctx, &namebuf, MXNAME);
check_result(result, "isc_buffer_allocate");
dns_name_init(&keyname, NULL);
check_result(result, "dns_name_init");
isc_buffer_putstr(namebuf, keynametext);
secretsize = (unsigned int) strlen(keysecret) * 3 / 4;
secretstore = isc_mem_allocate(mctx, secretsize);
if (secretstore == NULL)
  fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
isc_buffer_init(&secretbuf, secretstore, secretsize);
result = isc_base64_decodestring(keysecret, &secretbuf);
if (result != ISC_R_SUCCESS)
goto failure;
secretsize = isc_buffer_usedlength(&secretbuf);

if (hmacname == NULL) {
  result = DST_R_UNSUPPORTEDALG;
goto failure;
}
result = dns_name_fromtext(&keyname, namebuf, dns_rootname, 0, namebuf);
if (result != ISC_R_SUCCESS)
goto failure;
result = dns_tsigkey_create(&keyname, hmacname, secretstore,
(int)secretsize, false, NULL, 0, 0,
mctx, NULL, &tsigkey);
failure:
if (result != ISC_R_SUCCESS)
printf(";; Couldn't create key %s: %s\n",
keynametext, isc_result_totext(result));
else
dst_key_setbits(tsigkey->key, digestbits);

isc_mem_free(mctx, secretstore);
dns_name_invalidate(&keyname);
isc_buffer_free(&namebuf);
}

static isc_result_t
parse_uint_helper(uint32_t *uip, const char *value, uint32_t max,
const char *desc, int base) {
uint32_t n;
isc_result_t result = isc_parse_uint32(&n, value, base);
if (result == ISC_R_SUCCESS && n > max)
result = ISC_R_RANGE;
if (result != ISC_R_SUCCESS) {
printf("invalid %s '%s': %s\n", desc,
value, isc_result_totext(result));
return (result);
}
*uip = n;
return (ISC_R_SUCCESS);
}

isc_result_t
parse_uint(uint32_t *uip, const char *value, uint32_t max,
const char *desc) {
return (parse_uint_helper(uip, value, max, desc, 10));
}

isc_result_t
parse_xint(uint32_t *uip, const char *value, uint32_t max,
const char *desc) {
return (parse_uint_helper(uip, value, max, desc, 0));
}

static uint32_t
parse_bits(char *arg, const char *desc, uint32_t max) {
isc_result_t result;
uint32_t tmp;
result = parse_uint(&tmp, arg, max, desc);
if (result != ISC_R_SUCCESS)
fatal("couldn't parse digest bits");
tmp = (tmp + 7) & ~0x7U;
return (tmp);
}

isc_result_t
parse_netprefix(isc_sockaddr_t **sap, const char *value) {
isc_result_t result = ISC_R_SUCCESS;
isc_sockaddr_t *sa = NULL;
struct in_addr in4;
struct in6_addr in6;
uint32_t prefix_length = 0xffffffff;
char *slash = NULL;
bool parsed = false;
bool prefix_parsed = false;

REQUIRE(sap != NULL && *sap == NULL);

if (strlcpy(buf, value, sizeof(buf)) >= sizeof(buf))
fatal("invalid prefix ‘%s’\n", value);

sa = isc_mem_allocate(mctx, sizeof(*sa));
if (sa == NULL)
fatal("out of memory");
memset(sa, 0, sizeof(*sa));

if (strcmp(buf, “0”) == 0) {
    sa->type.sa.sa_family = AF_UNSPEC;
prefix_length = 0;
goto done;
}

slash = strchr(buf, ‘/’);
if (slash != NULL) {
    *slash = ‘0’;
    result = isc_parse_uint32(&prefix_length, slash + 1, 10);
    if (result != ISC_R_SUCCESS) {
        fatal("invalid prefix length in ‘%s’: %s\n", value, isc_result_totext(result));
    }
    prefix_parsed = true;
}

slash = strchr(buf, ‘/’);
if (slash != NULL) {
    *slash = ‘0’;
    result = isc_parse_uint32(&prefix_length, slash + 1, 10);
    if (result != ISC_R_SUCCESS) {
        fatal("invalid prefix length in ‘%s’: %s\n", value, isc_result_totext(result));
    }
    prefix_parsed = true;
}

if (inet_pton(AF_INET6, buf, &in6) == 1) {
parsed = true;
isc_sockaddr_fromin6(sa, &in6, 0);
if (prefix_length > 128)
    prefix_length = 128;
} else if (inet_pton(AF_INET, buf, &in4) == 1) {
    parsed = true;
    isc_sockaddr_fromin(sa, &in4, 0);
    if (prefix_length > 32)
        prefix_length = 32;
} else if (prefix_parsed) {
    int i;

    for (i = 0; i < 3 && strlen(buf) < sizeof(buf) - 2; i++) {
        strlcat(buf, ".0", sizeof(buf));
        if (inet_pton(AF_INET, buf, &in4) == 1) {
            parsed = true;
            isc_sockaddr_fromin(sa, &in4, 0);
            break;
        }
    }

    if (prefix_length > 32)
        prefix_length = 32;
}

if (!parsed)
    fatal("invalid address '%s'", value);

done:
    sa->length = prefix_length;
    *sap = sa;

    return (ISC_R_SUCCESS);
}

/*
 * Parse HMAC algorithm specification
 */
void
parse_hmac(const char *hmac) {
    char buf[20];
    size_t len;

    REQUIRE(hmac != NULL);

    len = strlen(hmac);
    if (len >= sizeof(buf))
        fatal("unknown key type ". "", (int)len, hmac);
    strcpy(buf, hmac, sizeof(buf));
digestbits = 0;

#ifndef PK11_MD5_DISABLE
if (strncasecmp(buf, "hmac-md5", 9) == 0) {
    hmacname = DNS_TSIG_HMACMD5_NAME;
    digestbits = parse_bits(&buf[9], "digest-bits [0..128]", 128);
} else if (strncasecmp(buf, "hmac-md5-", 9) == 0) {
    hmacname = DNS_TSIG_HMACMD5_NAME;
    digestbits = parse_bits(&buf[9], "digest-bits [0..128]", 128);
} else
#endif
if (strcasecmp(buf, "hmac-sha1") == 0) {
    hmacname = DNS_TSIG_HMACSHA1_NAME;
    digestbits = 0;
} else if (strncasecmp(buf, "hmac-sha1-", 10) == 0) {
    hmacname = DNS_TSIG_HMACSHA1_NAME;
    digestbits = parse_bits(&buf[10], "digest-bits [0..160]", 160);
} else if (strncasecmp(buf, "hmac-sha224") == 0) {
    hmacname = DNS_TSIG_HMACSHA224_NAME;
    digestbits = parse_bits(&buf[12], "digest-bits [0..224]", 224);
} else if (strncasecmp(buf, "hmac-sha224-", 12) == 0) {
    hmacname = DNS_TSIG_HMACSHA224_NAME;
    digestbits = parse_bits(&buf[12], "digest-bits [0..224]", 224);
} else if (strncasecmp(buf, "hmac-sha256") == 0) {
    hmacname = DNS_TSIG_HMACSHA256_NAME;
} else if (strncasecmp(buf, "hmac-sha256-", 12) == 0) {
    hmacname = DNS_TSIG_HMACSHA256_NAME;
    digestbits = parse_bits(&buf[12], "digest-bits [0..256]", 256);
} else if (strncasecmp(buf, "hmac-sha384") == 0) {
    hmacname = DNS_TSIG_HMACSHA384_NAME;
} else if (strncasecmp(buf, "hmac-sha384-", 12) == 0) {
    hmacname = DNS_TSIG_HMACSHA384_NAME;
    digestbits = parse_bits(&buf[12], "digest-bits [0..384]", 384);
} else if (strncasecmp(buf, "hmac-sha512") == 0) {
    hmacname = DNS_TSIG_HMACSHA512_NAME;
} else if (strncasecmp(buf, "hmac-sha512-", 12) == 0) {
    hmacname = DNS_TSIG_HMACSHA512_NAME;
    digestbits = parse_bits(&buf[12], "digest-bits [0..512]", 512);
} else {
    fprintf(stderr, ";; Warning, ignoring "
            "invalid TSIG algorithm %s\n", buf);
}

/*
 * Get a key from a named.conf format keyfile
 */
static isc_result_t
read_confkey(void) {
    cfg_parser_t *pctx = NULL;
cfg_obj_t *file = NULL;
const cfg_obj_t *keyobj = NULL;
const cfg_obj_t *secretobj = NULL;
const cfg_obj_t *algorithmobj = NULL;
const char *keyname;
const char *secretstr;
const char *algorithm;
isc_result_t result;

if (! isc_file_exists(keyfile))
    return (ISC_R_FILENOTFOUND);

result = cfg_parser_create(mctx, NULL, &pctx);
if (result != ISC_R_SUCCESS)
    goto cleanup;

result = cfg_parse_file(pctx, keyfile, &cfg_type_sessionkey, &file);
if (result != ISC_R_SUCCESS)
    goto cleanup;

result = cfg_map_get(file, "key", &keyobj);
if (result != ISC_R_SUCCESS)
    goto cleanup;

(void) cfg_map_get(keyobj, "secret", &secretobj);
(void) cfg_map_get(keyobj, "algorithm", &algorithmobj);
if (secretobj == NULL || algorithmobj == NULL)
    fatal("key must have algorithm and secret");

keyname = cfg_obj_asstring(cfg_map_getname(keyobj));
secretstr = cfg_obj_asstring(secretobj);
algorithm = cfg_obj_asstring(algorithmobj);

strlcpy(keynametext, keyname, sizeof(keynametext));
strlcpy(keysecret, secretstr, sizeof(keysecret));
pars_hmac(algorithm);
setup_text_key();

cleanup:
if (pctx != NULL) {
    if (file != NULL)
        cfg_obj_destroy(pctx, &file);
    cfg_parser_destroy(&pctx);
}

return (result);
void
setup_file_key(void) {
isc_result_t result;
dst_key_t *dstkey = NULL;

decimal("setup_file_key()");

/* Try reading the key from a K* pair */
result = dst_key_fromnamedfile(keyfile, NULL,

   DST_TYPE_PRIVATE | DST_TYPE_KEY, mctx,
   &dstkey);

/* If that didn't work, try reading it as a session.key keyfile */
if (result != ISC_R_SUCCESS) {
result = read_confkey();
if (result == ISC_R_SUCCESS)
return;
}

if (result != ISC_R_SUCCESS) {
fprintf(stderr, "Couldn't read key from %s: %s\n",
keyfile, decimal(result));
goto failure;
}

switch (dst_key_alg(dstkey)) {
#ifndef PK11_MD5_DISABLE
    case DST_ALG_HMACMD5:
hmacname = DNS_TSIG_HMACMD5_NAME;
break;
#endif
    case DST_ALG_HMACSHA1:
hmacname = DNS_TSIG_HMACSHA1_NAME;
break;
    case DST_ALG_HMACSHA224:
hmacname = DNS_TSIG_HMACSHA224_NAME;
break;
    case DST_ALG_HMACSHA256:
hmacname = DNS_TSIG_HMACSHA256_NAME;
break;
    case DST_ALG_HMACSHA384:
hmacname = DNS_TSIG_HMACSHA384_NAME;
break;
    case DST_ALG_HMACSHA512:
hmacname = DNS_TSIG_HMACSHA512_NAME;
break;
    default:
printf(";; Couldn't create key %s: bad algorithm\n", keynametext);
goto failure;
}
result = dns_tsigkey_createfromkey(dst_key_name(dstkey), hmacname, dstkey, false, NULL, 0, 0, mctx, NULL, &tsigkey);
if (result != ISC_R_SUCCESS) {
printf(";; Couldn't create key %s: %s\n", keynametext, isc_result_totext(result));
goto failure;
}
failure:
if (dstkey != NULL)
dst_key_free(&dstkey);
}

static dig_searchlist_t *
make_searchlist_entry(char *domain) {
  dig_searchlist_t *search;
  search = isc_mem_allocate(mctx, sizeof(*search));
  if (search == NULL)
fatal("memory allocation failure in %s:%d", __FILE__, __LINE__);
  strlcpy(search->origin, domain, MXNAME);
  search->origin[MXNAME-1] = 0;
  ISC_LINK_INIT(search, link);
  return (search);
}

static void
clear_searchlist(void) {
  dig_searchlist_t *search;
  while ((search = ISC_LIST_HEAD(search_list)) != NULL) {
    ISC_LIST_UNLINK(search_list, search, link);
    isc_mem_free(mctx, search);
  }
}

static void
create_search_list(lwres_conf_t *confdata) {
  int i;
  dig_searchlist_t *search;

debug("create_search_list()”);
clear_searchlist();

  for (i = 0; i < confdata->searchnxt; i++) {
search = make_searchlist_entry(confdata->search[i]);
ISC_LIST_APPEND(search_list, search, link);
}
}

/*
 * Setup the system as a whole, reading key information and resolv.conf
 * settings.
 */

void
setup_system(bool ipv4only, bool ipv6only) {
  dig_searchlist_t *domain = NULL;
  lwres_result_t lwresult;
  unsigned int lwresflags;
  isc_result_t result;

  debug("setup_system()");

  if (ipv4only) {
    if (have_ipv4) {
      isc_net_disableipv6();
      have_ipv6 = false;
    } else {
      fatal("can't find IPv4 networking");
    }
  }

  if (ipv6only) {
    if (have_ipv6) {
      isc_net_disableipv4();
      have_ipv4 = false;
    } else {
      fatal("can't find IPv6 networking");
    }
  }

  lwresflags = LWRES_CONTEXT_SERVERMODE;
  if (have_ipv4)
    lwresflags |= LWRES_CONTEXT_USEIPV4;
  if (have_ipv6)
    lwresflags |= LWRES_CONTEXT_USEIPV6;

  lwresult = lwres_context_create(&lwctx, mctx, mem_alloc, mem_free, lwresflags);
  if (lwresult != LWRES_R_SUCCESS)
    fatal("lwres_context_create failed");

  lwresult = lwres_conf_parse(lwctx, RESOLV_CONF);
}
if (lwresult != LWRES_R_SUCCESS && lwresult != LWRES_R_NOTFOUND)
fatal("parse of %s failed", RESOLV_CONF);

lwconf = lwres_conf_get(lwctx);

/* Make the search list */
if (lwconf->searchnxt > 0)
create_search_list(lwconf);
else {/* No search list. Use the domain name if any */
if (lwconf->domainname != NULL) {
    domain = make_searchlist_entry(lwconf->domainname);
    ISC_LIST_APPEND(search_list, domain, link);
    domain  = NULL;
}
}

if (lwconf->resdebug) {
    verbose = true;
    debug("verbose is on");
}
if (ndots == -1) {
    ndots = lwconf->ndots;
    debug("ndots is %d.", ndots);
}
if (lwconf->attempts) {
    tries = lwconf->attempts + 1;
    if (tries < 2)
        tries = 2;
    debug("tries is %d.", tries);
}
if (lwconf->timeout) {
    timeout = lwconf->timeout;
    debug("timeout is %d.", timeout);
}

/* If user doesn’t specify server use nameservers from resolv.conf. */
if (ISC_LIST_EMPTY(server_list))
copy_server_list(lwconf, &server_list);

/* If we don’t find a nameserver fall back to localhost */
if (ISC_LIST_EMPTY(server_list)) {
    if (have_ipv4) {
        lwresult = add_nameserver(lwconf, "127.0.0.1", AF_INET);
        if (lwresult != ISC_R_SUCCESS)
            fatal("add_nameserver failed");
    }
    if (have_ipv6) {
        lwresult = add_nameserver(lwconf, ":1", AF_INET6);
    }
}
if (lwresult != ISC_R_SUCCESS)
fatal("add_nameserver failed");
}
copy_server_list(lwconf, &server_list);
}
#endif

#ifdef HAVE_SETLOCALE
/* Set locale */
(void)setlocale(LC_ALL, "");
#endif

#ifdef WITH_IDN_SUPPORT
idn_initialize();
#endif

#ifdef WITH_IDN_OUT_SUPPORT
/* Set domain name -> text post-conversion filter. */
result = dns_name_settotextfilter(output_filter);
check_result(result, "dns_name_settotextfilter");
#endif

if (keyfile[0] != 0)
setup_file_key();
else if (keysecret[0] != 0)
setup_text_key();
#endif

/* Setup the list of messages for +sigchase */
ISC_LIST_INIT(chase_message_list);
ISC_LIST_INIT(chase_message_list2);
dns_name_init(&chase_name, NULL);
#endif

#if DIG_SIGCHASE_TD
dns_name_init(&chase_current_name, NULL);
dns_name_init(&chase_authority_name, NULL);
#endif

#if DIG_SIGCHASE_BU
dns_name_init(&chase_signame, NULL);
#endif

result = isc_entropy_getdata(entp, cookie_secret,
    sizeof(cookie_secret), NULL, 0);
if (result != ISC_R_SUCCESS)
fatal("unable to generate cookie secret");
}

/*%
* Override the search list derived from resolv.conf by 'domain'.
*/
void set_search_domain(char *domain) {
    dig_searchlist_t *search;

clear_searchlist();
    search = make_searchlist_entry(domain);
    ISC_LIST_APPEND(search_list, search, link);
}

/*%
 * Setup the ISC and DNS libraries for use by the system.
 */
void setup_libs(void) {
    isc_result_t result;
    isc_logconfig_t *logconfig = NULL;

debug("setup_libs()");

#ifndef PKCS11CRYPTO
pk11_result_register();
#endif
dns_result_register();

result = isc_net_probeipv4();
    if (result == ISC_R_SUCCESS)
        have_ipv4 = true;

result = isc_net_probeipv6();
    if (result == ISC_R_SUCCESS)
        have_ipv6 = true;
    if (!have_ipv6 && !have_ipv4)
        fatal("can't find either v4 or v6 networking");

result = isc_mem_create(0, 0, &mctx);
    check_result(result, "isc_mem_create");
    isc_mem_setname(mctx, "dig", NULL);

result = isc_log_create(mctx, &lctx, &logconfig);
    check_result(result, "isc_log_create");

    isc_log_setcontext(lctx);
dns_log_init(lctx);
dns_log_setcontext(lctx);

    result = isc_log_usechannel(logconfig, "default_debug", NULL, NULL);
    check_result(result, "isc_log_usechannel");
isc_log_setdebuglevel(lctx, 0);

result = isc_taskmgr_create(mctx, 1, 0, &taskmgr);
check_result(result, "isc_taskmgr_create");

result = isc_task_create(taskmgr, 0, &global_task);
check_result(result, "isc_task_create");
isc_task_setname(global_task, "dig", NULL);

result = isc_timermgr_create(mctx, &timermgr);
check_result(result, "isc_timermgr_create");

result = isc_socketmgr_create(mctx, &socketmgr);
check_result(result, "isc_socketmgr_create");

result = isc_entropy_create(mctx, &entp);
check_result(result, "isc_entropy_create");

result = dst_lib_init(mctx, entp, 0);
check_result(result, "dst_lib_init");
is_dst_up = true;

result = isc_mempool_create(mctx, COMMSIZE, &commctx);
check_result(result, "isc_mempool_create");
isc_mempool_setname(commctx, "COMMPOOL");
/*
 * 6 and 2 set as reasonable parameters for 3 or 4 nameserver
 * systems.
 */
isc_mempool_setfreemax(commctx, 6);
isc_mempool_setfillcount(commctx, 2);

result = isc_mutex_init(&lookup_lock);
check_result(result, "isc_mutex_init");
}

typedef struct dig_ednsoptname {
uint32_t code;
const char *name;
} dig_ednsoptname_t;

dig_ednsoptname_t optnames[] = {
{ 3, "NSID" }, /* RFC 5001 */
{ 5, "DAU" }, /* RFC 6975 */
{ 6, "DHU" }, /* RFC 6975 */
{ 7, "N3U" }, /* RFC 6975 */
{ 8, "ECS" }, /* RFC 7871 */
{  9, "EXPIRE" },/* RFC 7314 */
{ 10, "COOKIE" },/* RFC 7873 */
{ 11, "KEEPALIVE" },/* RFC 7828 */
{ 12, "PADDING" },/* RFC 7830 */
{ 12, "PAD" },/* shorthand */
{ 13, "CHAIN" },/* RFC 7901 */
{ 14, "KEY-TAG" },/* RFC 8145 */
{ 16, "CLIENT-TAG" },/* draft-bellis-dnsop-edns-tags */
{ 17, "SERVER-TAG" },/* draft-bellis-dnsop-edns-tags */
{ 26946, "DEVICEID" },/* Brian Hartvigsen */
};

#define N_EDNS_OPTNAMES  (sizeof(optnames) / sizeof(optnames[0]))

void
save_opt(dig_lookup_t *lookup, char *code, char *value) {
  isc_result_t result;
  uint32_t num = 0;
  isc_buffer_t b;
  bool found = false;
  unsigned int i;

  if (lookup->ednsoptscnt >= EDNSOPT_OPTIONS)
    fatal("too many ednsopts");

  for (i = 0; i < N_EDNS_OPTNAMES; i++) {
    if (strcasecmp(code, optnames[i].name) == 0) {
      num = optnames[i].code;
      found = true;
      break;
    }
  }

  if (!found) {
    result = parse_uint(&num, code, 65535, "ednsopt");
    if (result != ISC_R_SUCCESS)
      fatal("bad edns code point: %s", code);
  }

  if (lookup->ednsopts == NULL) {
    cloneopts(lookup, NULL);
  }

  if (lookup->ednsopts[lookup->ednsoptscnt].value != NULL)
    isc_mem_free(mctx, lookup->ednsopts[lookup->ednsoptscnt].value);

  lookup->ednsopts[lookup->ednsoptscnt].code = num;
  lookup->ednsopts[lookup->ednsoptscnt].length = 0;
}
lookup->ednsopts[lookup->ednsoptscnt].value = NULL;

if (value != NULL) {
    char *buf;
    buf = isc_memAllocate(mctx, strlen(value)/2 + 1);
    if (buf == NULL)
        fatal("out of memory");
    iscBufferInit(&b, buf, (unsigned int) strlen(value)/2 + 1);
    result = isc_hex_decodestring(value, &b);
    check_result(result, "isc_hex_decodestring");
    lookup->ednsopts[lookup->ednsoptscnt].value =
        iscBufferBase(&b);
    lookup->ednsopts[lookup->ednsoptscnt].length =
        iscBufferUsedlength(&b);
}

lookup->ednsoptscnt++;
}

/*%*/
/* Add EDNS0 option record to a message. Currently, the only supported
 * options are UDP buffer size, the DO bit, and EDNS options
 * (e.g., NSID, COOKIE, client-subnet)
 */
static void
add_opt(dns_message_t *msg, uint16_t udpsize, uint16_t edns,
    unsigned int flags, dns_ednsopt_t *opts, size_t count)
{
    dns_rdataset_t *rdataset = NULL;
    isc_result_t result;

    debug("add_opt()");
    result = dns_message_buildopt(msg, &rdataset, edns, udpsize, flags,
        opts, count);
    check_result(result, "dns_message_buildopt");
    result = dns_message_setopt(msg, rdataset);
    check_result(result, "dns_message_setopt");
}

/*%*/
/* Add a question section to a message, asking for the specified name,
 * type, and class.
 */
static void
add_question(dns_message_t *message, dns_name_t *name,
    dns_rdataclass_t rdclass, dns_rdatatype_t rdtype)
{
    dns_rdataset_t *rdataset;

isc_result_t result;

d debug("add_question()");
rdataset = NULL;
result = dns_message_gettemprrdataset(message, &rdataset);
check_result(result, "dns_message_gettemprrdataset()");
dns_rdataset_makequestion(rdataset, rdclass, rdtype);
ISC_LIST_APPEND(name->list, rdataset, link);
}

/*
 * Check if we're done with all the queued lookups, which is true iff
 * all sockets, sends, and recvs are accounted for (counters == 0),
 * and the lookup list is empty.
 * If we are done, pass control back out to dighost_shutdown() (which is
 * part of dig.c, host.c, or nslookup.c) to either shutdown the system as
 * a whole or reseed the lookup list.
 */
static void
check_if_done(void) {
  debug("check_if_done()");
  debug("list %s", ISC_LIST_EMPTY(lookup_list) ? "empty" : "full");
  if (ISC_LIST_EMPTY(lookup_list) && current_lookup == NULL &&
      sendcount == 0) { INSIST(sockcount == 0);
    INSIST(recvcount == 0);
    debug("shutting down");
    dighost_shutdown();
  }
}

/*
 * Clear out a query when we're done with it. WARNING: This routine
 * WILL invalidate the query pointer.
 */
static void
clear_query(dig_query_t *query) {
  dig_lookup_t *lookup;

  REQUIRE(query != NULL);

  debug("clear_query(%p)", query);

  if (query->timer != NULL)
    isc_timer_detach(&query->timer);
  lookup = query->lookup;

  if (lookup->current_query == query)
lookup->current_query = NULL;

if (ISC_LINK_LINKED(query, link))
ISC_LIST_UNLINK(lookup->q, query, link);
if (ISC_LINK_LINKED(query, clink))
ISC_LIST_UNLINK(lookup->connecting, query, clink);
if (ISC_LINK_LINKED(&query->recvbuf, link))
ISC_LIST_DEQUEUE(query->recvlist, &query->recvbuf, link);
if (ISC_LINK_LINKED(&query->lengthbuf, link))
ISC_LIST_DEQUEUE(query->lengthlist, &query->lengthbuf, link);
INSIST(query->recvspace != NULL);

if (query->sock != NULL) {
    isc_socket_detach(&query->sock);
    sockcount--;
    debug("sockcount=%d", sockcount);
}
isc_mempool_put(commctx, query->recvspace);
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_invalidate(&query->lengthbuf);
if (query->waiting_senddone)
    query->pending_free = true;
else
    isc_mem_free(mctx, query);
}

/*%
* Try and clear out a lookup if we're done with it. Return true if
* the lookup was successfully cleared. If true is returned, the
* lookup pointer has been invalidated.
*/
static bool
try_clear_lookup(dig_lookup_t *lookup) {
    dig_query_t *q;

    REQUIRE(lookup != NULL);

ddebug("try_clear_lookup(%p)", lookup);

    if (ISC_LIST_HEAD(lookup->q) != NULL ||
        ISC_LIST_HEAD(lookup->connecting) != NULL) {
        if (debugging) {
            q = ISC_LIST_HEAD(lookup->q);
            while (q != NULL) {
                debug("query to %s still pending", q->servname);
q = ISC_LIST_NEXT(q, link);
}

q = ISC_LIST_HEAD(lookup->connecting);
while (q != NULL) {
    debug("query to %s still connecting",
        q->servname);
    q = ISC_LIST_NEXT(q, clink);
    }
}
return (false);
}

/*
 * At this point, we know there are no queries on the lookup,
 * so can make it go away also.
 */
destroy_lookup(lookup);
return (true);
}

void
destroy_lookup(dig_lookup_t *lookup) {
    dig_server_t *s;
    void *ptr;

dbg("destroy");
    s = ISC_LIST_HEAD(lookup->my_server_list);
    while (s != NULL) {
        dbg("freeing server %p belonging to %p", s, lookup);
        ptr = s;
        s = ISC_LIST_NEXT(s, link);
        ISC_LIST_DEQUEUE(lookup->my_server_list,
            (dig_server_t *)ptr, link);
        isc_mem_free(mctx, ptr);
    }
    if (lookup->sendmsg != NULL)
        dns_message_destroy(&lookup->sendmsg);
    if (lookup->querysig != NULL) {
        dbg("freeing buffer %p", lookup->querysig);
        isc_buffer_free(&lookup->querysig);
    }
    if (lookup->sendspace != NULL)
        isc_mempool_put(commctx, lookup->sendspace);
    if (lookup->tsigctx != NULL)
        dst_context_destroy(&lookup->tsigctx);


if (lookup->ecs_addr != NULL)
    isc_mem_free(mctx, lookup->ecs_addr);

if (lookup->ednsopts != NULL) {
    size_t i;
    for (i = 0; i < EDNSOPT_OPTIONS; i++) {
        if (lookup->ednsopts[i].value != NULL)
            isc_mem_free(mctx, lookup->ednsopts[i].value);
    }
    isc_mem_free(mctx, lookup->ednsopts);
}

isc_mem_free(mctx, lookup);
}

/*%
 * If we can, start the next lookup in the queue running.
 * This assumes that the lookup on the head of the queue hasn't been
 * started yet.  It also removes the lookup from the head of the queue,
 * setting the current_lookup pointer pointing to it.
 */

void
start_lookup(void) {
    debug("start_lookup()");
    if (cancel_now)
        return;

    /*
    * If there's a current lookup running, we really shouldn't get
    * here.
    */
    INSIST(current_lookup == NULL);

    current_lookup = ISC_LIST_HEAD(lookup_list);
    /*
    * Put the current lookup somewhere so cancel_all can find it
    */
    if (current_lookup != NULL) {
        ISC_LIST_DEQUEUE(lookup_list, current_lookup, link);
        #if DIG_SIGCHASE_TD
            if (current_lookup->do_topdown &&
                !current_lookup->rdtype_sigchaseset) {
                dst_key_t *dstkey = NULL;
                isc_buffer_t *b = NULL;
                isc_region_t r;
                isc_result_t result;
                dns_name_t query_name;
                dns_name_t *key_name;
            }
        #endif
    }

int i;

result = get_trusted_key();
if (result != ISC_R_SUCCESS) {
  printf("\n; No trusted key, "
    "+sigchase option is disabled\n");
  current_lookup->sigchase = false;
go to novalidation;
}
dns_name_init(&query_name, NULL);
nameFromString(current_lookup->textname, &query_name);

for (i = 0; i < tk_list.nb_tk; i++) {
  key_name = dst_key_name(tk_list.key[i]);

  if (dns_name_issubdomain(&query_name, key_name) == true)
    dstkey = tk_list.key[i];
  /*
   * Verify temp is really the lowest
   * WARNING
   */
  
  if (dstkey == NULL) {
    printf("\n; The queried zone: ");
    dns_name_print(&query_name, stdout);
    printf(" isn't a subdomain of any Trusted Keys" 
      ": +sigchase option is disable\n");
    current_lookup->sigchase = false;
    free_name(&query_name);
go to novalidation;
  }
  free_name(&query_name);

  current_lookup->rdtype_sigchase
    = current_lookup->rdtype;
  current_lookup->rdtype_sigchaseset
    = current_lookup->rdtypeset;
  current_lookup->rdtype
    = dns_rdatatype_ns;
  current_lookup->qrdtype_sigchase
    = current_lookup->qrdtype;
  current_lookup->qrdtype = dns_rdatatype_ns;
  current_lookup->rdclass_sigchase
    = current_lookup->rdclass;
  current_lookup->rdclass_sigchaseset
    = current_lookup->rdclassset;
current_lookup->rclass = dns_rdataclass_in;

strlcpy(current_lookup->textnamesigchase,
current_lookup->textname, MXNAME);

current_lookup->trace_root_sigchase = true;

result = isc_buffer_allocate(mctx, &b, BUFSIZE);
check_result(result, "isc_buffer_allocate");
result = dns_name_totext(dst_key_name(dstkey),
false, b);
check_result(result, "dns_name_totext");
isc_buffer_usedregion(b, &r);
    r.base[r.length] = '0';
strlcpy(current_lookup->textname, (char*)r.base,
    MXNAME);
isc_buffer_free(&b);

nameFromString(current_lookup->textnamesigchase,
    &chase_name);

dns_name_init(&chase_authority_name, NULL);
}

novalidation:
#ifndef
if (setup_lookup(current_lookup))
do_lookup(current_lookup);
else if (next_origin(current_lookup))
    check_next_lookup(current_lookup);
} else {
    check_if_done();
}

/ *
* If we can, clear the current lookup and start the next one running.
* This calls try_clear_lookup, so may invalidate the lookup pointer.
* /
static void
check_next_lookup(dig_lookup_t *lookup) {

    INSIST(!free_now);

debug("check_next_lookup(%p)", lookup);

    if (ISC_LIST_HEAD(lookup->q) != NULL) {
        debug("still have a worker");
        return;
    }
if (try_clear_lookup(lookup)) {
    current_lookup = NULL;
    start_lookup();
}
}

/*
 * Create and queue a new lookup as a followup to the current lookup,
 * based on the supplied message and section. This is used in trace and
 * name server search modes to start a new lookup using servers from
 * NS records in a reply. Returns the number of followup lookups made.
 */
static int
followup_lookup(dns_message_t *msg, dig_query_t *query, dns_section_t section)
{
    dig_lookup_t *lookup = NULL;
    dig_server_t *srv = NULL;
    dns_rdataset_t *rdataset = NULL;
    dns_rdata_t rdata = DNS_RDATA_INIT;
    dns_name_t *name = NULL;
    isc_result_t result;
    bool success = false;
    int numLookups = 0;
    int num;
    isc_result_t lresult, addresses_result;
    char bad_namestr[DNS_NAME_FORMATSIZE];
    dns_name_t *domain;
    bool horizontal = false, bad = false;
    INSIST(!free_now);
    debug("following up %s", query->lookup->textname);
    addresses_result = ISC_R_SUCCESS;
    bad_namestr[0] = '\0';
    for (result = dns_message_firstname(msg, section);
        result == ISC_R_SUCCESS;
        result = dns_message_nextname(msg, section)) {
        name = NULL;
        dns_message_currentname(msg, section, &name);
        if (section == DNS_SECTION_AUTHORITY) {
            rdataset = NULL;
            result = dns_message_findtype(name, dns_rdatatype_soa,
                                          0, &rdataset);
            if (result == ISC_R_SUCCESS)
                return (0);
        }
    }
    }
rdataset = NULL;
result = dns_message_findtype(name, dns_rdatatype_ns, 0,
&rdataset);
if (result != ISC_R_SUCCESS)
continue;

dbg("found NS set");

if (query->lookup->trace && !query->lookup->trace_root) {
dns_namereln_t namereln;
unsigned int nlabels;
int order;

domain = dns_fixedname_name(&query->lookup->fdomain);
namereln = dns_name_fullcompare(name, domain,
&order, &nlabels);
if (namereln == dns_namereln_equal) {
if (!horizontal)
printf(";; BAD (HORIZONTAL) REFERRAL\n");
horizontal = true;
} else if (namereln != dns_namereln_subdomain) {
if (!bad)
printf(";; BAD REFERRAL\n");
bad = true;
continue;
}
}

for (result = dns_rdataset_first(rdataset);
result == ISC_R_SUCCESS;
result = dns_rdataset_next(rdataset)) {
char namestr[DNS_NAME_FORMATSIZE];
dns_rdata_ns_t ns;

if (query->lookup->trace_root &&
    query->lookup->nsfound >= MXSERV)
break;

dns_rdataset_current(rdataset, &rdata);

query->lookup->nsfound++;
result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");
dns_name_format(&ns.name, namestr, sizeof(namestr));
dns_rdata_freestruct(&ns);

/* Initialize lookup if we've not yet */
debug("found NS %s", namestr);
if (!success) {
    success = true;
    lookup_counter++;
    lookup = requeue_lookup(query->lookup, false);
    cancel_lookup(query->lookup);
    lookup->doing_xfr = false;
    if (!lookup->trace_root &&
        section == DNS_SECTION_ANSWER)
        lookup->trace = false;
    else
        lookup->trace = query->lookup->trace;
    lookup->ns_search_only =
        query->lookup->ns_search_only;
    lookup->trace_root = false;
    if (lookup->ns_search_only)
        lookup->recurse = false;
    domain = dns_fixedname_name(&lookup->fdomain);
    dns_name_copy(name, domain, NULL);
}
depth("adding server %s", namestr);
num = getaddresses(lookup, namestr, &lresult);
if (lresult != ISC_R_SUCCESS) {
    printf("couldn't get address for '%s': %s\n",
           namestr, isc_result_totext(lresult));
    if (addresses_result == ISC_R_SUCCESS) {
        addresses_result = lresult;
        strlcpy(bad_namestr, namestr, sizeof(bad_namestr));
    }
}
numLookups += num;
dns_rdata_reset(&rdata);
}
if (numLookups == 0 && addresses_result != ISC_R_SUCCESS) {
    fatal("couldn't get address for '%s': %s",
          bad_namestr, isc_result_totext(result));
}
if (lookup == NULL &&
    section == DNS_SECTION_ANSWER &&
    (query->lookup->trace || query->lookup->ns_search_only))
    return (followup_lookup(msg, query, DNS_SECTION_AUTHORITY));

/*
 * Randomize the order the nameserver will be tried.
/*
if (numLookups > 1) {
    uint32_t i, j;
    dig_serverlist_t my_server_list;
    dig_server_t *next;

    ISC_LIST_INIT(my_server_list);

    i = numLookups;
    for (srv = ISC_LIST_HEAD(lookup->my_server_list);
         srv != NULL;
         srv = ISC_LIST_HEAD(lookup->my_server_list)) {
        INSIST(i > 0);
        isc_random_get(&j);
        j %= i;
        next = ISC_LIST_NEXT(srv, link);
        while (j-- > 0 && next != NULL) {
            srv = next;
            next = ISC_LIST_NEXT(srv, link);
        }
        ISC_LIST_DEQUEUE(lookup->my_server_list, srv, link);
        ISC_LIST_APPEND(my_server_list, srv, link);
        i--;
    }
    ISC_LIST_APPENDLIST(lookup->my_server_list,
                        my_server_list, link);

    return (numLookups);
}

/* *
* Create and queue a new lookup using the next origin from the search
* list, read in setup_system().
*
* Return true iff there was another searchlist entry.
*/
static bool
next_origin(dig_lookup_t *oldlookup) {
    dig_lookup_t *newlookup;
    dig_searchlist_t *search;
    dns_fixedname_t fixed;
    dns_name_t *name;
    isc_result_t result;
    INSIST(!free_now);

    debug("next_origin()");

    return (numLookups);
}
debug("following up \%s", oldlookup->textname);

if (!usesearch)
/*
 * We're not using a search list, so don't even think
 * about finding the next entry.
 */
return (false);

/*
 * Check for a absolute name or ndots being met.
 */
name = dns_fixedname_initname(&fixed);
result = dns_name_fromstring2(name, oldlookup->textname, NULL, 0, NULL);
if (result == ISC_R_SUCCESS &&
(dns_name_isabsolute(name) ||
(int)dns_name_countlabels(name) > ndots))
return (false);

if (oldlookup->origin == NULL && !oldlookup->need_search)
/*
 * Then we just did rootorg; there's nothing left.
 */
return (false);
if (oldlookup->origin == NULL && oldlookup->need_search) {
newlookup = requeue_lookup(oldlookup, true);
newlookup->origin = ISC_LIST_HEAD(search_list);
newlookup->need_search = false;
} else {
search = ISC_LIST_NEXT(oldlookup->origin, link);
if (search == NULL && oldlookup->done_as_is)
return (false);
newlookup = requeue_lookup(oldlookup, true);
newlookup->origin = search;
}
cancel_lookup(oldlookup);
return (true);
}

/*%
 * Insert an SOA record into the sendmessage in a lookup.  Used for
 * creating IXFR queries.
 */
static void
insert_soa(dig_lookup_t *lookup) {
isc_result_t result;
dns_rdata_soa_t soa;


dns_rdata_t *rdata = NULL;
dns_rdatalist_t *rdatalist = NULL;
dns_rdataset_t *rdataset = NULL;
dns_name_t *soaname = NULL;

debug("insert_soa()");
soa.mctx = mctx;
soa.serial = lookup->ixfr_serial;
soa.refresh = 0;
soa.retry = 0;
soa.expire = 0;
soa.minimum = 0;
soa.common.rdclass = lookup->rdclass;
soa.common.rdtype = dns_rdatatype_soa;

dns_name_init(&soa.origin, NULL);
dns_name_init(&soa.contact, NULL);

dns_name_clone(dns_rootname, &soa.origin);
dns_name_clone(dns_rootname, &soa.contact);

isc_buffer_init(&lookup->rdatabuf, lookup->rdatastore,
sizeof(lookup->rdatastore));

result = dns_message_gettemprdata(lookup->sendmsg, &rdata);
check_result(result, "dns_message_gettemprdata");

result = dns_rdata_fromstruct(rdata, lookup->rdclass, 
dns_rdatatype_soa, &soa,
&lookup->rdatabuf);
check_result(result, "isc_rdata_fromstruct");

result = dns_message_gettemprdatalist(lookup->sendmsg, &rdatalist);
check_result(result, "dns_message_gettemprdatalist");

result = dns_message_gettemprdataset(lookup->sendmsg, &rdataset);
check_result(result, "dns_message_gettemprdataset");

dns_rdatalist_init(rdatalist);
rdatalist->type = dns_rdatatype_soa;
rdatalist->rdclass = lookup->rdclass;
ISC_LIST_APPEND(rdatalist->rdata, rdata, link);

dns_rdatalist_tordataset(rdatalist, rdataset);

result = dns_message_gettempname(lookup->sendmsg, &soaname);
check_result(result, "dns_message_gettempname");
dns_name_init(soaname, NULL);
static void
compute_cookie(unsigned char *clientcookie, size_t len) {
/* XXXMPA need to fix, should be per server. */
INSIST(len >= 8U);
memmove(clientcookie, cookie_secret, 8);
}

/***/
* Setup the supplied lookup structure, making it ready to start sending
* queries to servers. Create and initialize the message to be sent as
* well as the query structures and buffer space for the replies. If the
* server list is empty, clone it from the system default list.
*/
bool
setup_lookup(dig_lookup_t *lookup) {
isc_result_t result;
uint32_t id;
unsigned int len;
dig_server_t *serv;
dig_query_t *query;
isc_buffer_t b;
dns_compress_t cctx;
char store[MXNAME];
char ecsbuf[20];
char cookiebuf[256];
char *origin = NULL;
char *textname = NULL;
#ifdef WITH_IDN_SUPPORT
char idn_origin[MXNAME], idn_textname[MXNAME];
#endif

#ifdef WITH_IDN_OUT_SUPPORT
result = dns_name_settotextfilter(lookup->idnout ?
    output_filter : NULL);
check_result(result, "dns_name_settotextfilter");
#endif

REQUIRE(lookup != NULL);
INSIST(!free_now);
dbg("setup_lookup(%p)", lookup);
result = dns_message_create(mctx, DNS_MESSAGE_INTENTRENDER, 
    &lookup->sendmsg);
check_result(result, "dns_message_create");

if (lookup->new_search) {
d debug("resetting lookup counter.");
 lookup_counter = 0;
}

if (ISC_LIST_EMPTY(lookup->my_server_list)) {
d debug("cloning server list");
 clone_server_list(server_list, &lookup->my_server_list);
}
result = dns_message_gettempname(lookup->sendmsg, &lookup->name);
check_result(result, "dns_message_gettempname");
dns_name_init(lookup->name, NULL);

isc_buffer_init(&lookup->namebuf, lookup->name_space, 
    sizeof(lookup->name_space));
isc_buffer_init(&lookup->onamebuf, lookup->oname_space, 
    sizeof(lookup->oname_space));

/*
* We cannot convert `textname' and `origin' separately.
* `textname' doesn't contain TLD, but local mapping needs
* TLD.
*/
textname = lookup->textname;
#endif

/*
* If the name has too many dots, force the origin to be NULL
* (which produces an absolute lookup). Otherwise, take the origin
* we have if there's one in the struct already. If it's NULL,
* take the first entry in the searchlist iff either usesearch
* is TRUE or we got a domain line in the resolv.conf file.
*/
if (lookup->new_search) {
    if ((count_dots(textname) >= ndots) || !usesearch)
        lookup->origin = NULL; /* Force abs lookup */
lookup->done_as_is = true;
lookup->need_search = usesearch;
} else if (lookup->origin == NULL && usesearch) {
lookup->origin = ISC_LIST_HEAD(search_list);
lookup->need_search = false;
}

if (lookup->origin != NULL) {
d debug("trying origin %s", lookup->origin->origin);
result = dns_message_gettempname(lookup->sendmsg,
 &lookup->oname);
check_result(result, "dns_message_gettempname");
if (lookup->origin != NULL)
/* XXX Helper funct to conv char* to name? */
origin = lookup->origin->origin;
#endif WITH_IDN_SUPPORT
if (lookup->idnin) {
result = idn_locale_to_ace(origin, idn_origin, sizeof(idn_origin));
check_result(result, "convert origin to IDN encoding");
origin = idn_origin;
}
#endif
len = (unsigned int) strlen(origin);
isc_buffer_init(&b, origin, len);
isc_buffer_add(&b, len);
result = dns_name_fromtext(lookup->oname, &b, dns_rootname,
 0, &lookup->onamebuf);
if (result != ISC_R_SUCCESS) {
dns_message_puttempname(lookup->sendmsg,
 &lookup->name);
dns_message_puttempname(lookup->sendmsg,
 &lookup->oname);
fatal("'%s' is not in legal name syntax (%s)",
  origin,
  isc_result_totext(result));
}
if (lookup->trace && lookup->trace_root) {
dns_name_clone(dns_rootname, lookup->name);
} else {
dns_fixedname_t fixed;
dns_name_t *name;

name = dns_fixedname_initname(&fixed);
len = (unsigned int) strlen(textname);
isc_buffer_init(&b, textname, len);
isc_buffer_add(&b, len);
result = dns_name_fromtext(name, &b, NULL, 0, NULL);
if (result == ISC_R_SUCCESS &&
    !dns_name_isabsolute(name))
    result = dns_name_concatenate(name,
        lookup->oname,
        lookup->name,
        &lookup->namebuf);
else if (result == ISC_R_SUCCESS)
    result = dns_name_copy(name, lookup->name,
        &lookup->namebuf);
if (result != ISC_R_SUCCESS) {
    dns_message_puttempname(lookup->sendmsg,
        &lookup->name);
    dns_message_puttempname(lookup->sendmsg,
        &lookup->oname);
    if (result == DNS_R_NAMETOOLONG)
        return (false);
    fatal("'%s' is not in legal name syntax (%s)",
        lookup->textname,
        isc_result_totext(result));
}
}

if (lookup->trace && lookup->trace_root)
    dns_name_clone(dns_rootname, lookup->name);
else {
    len = (unsigned int) strlen(textname);
    isc_buffer_init(&b, textname, len);
    isc_buffer_add(&b, len);
    result = dns_name_fromtext(lookup->name, &b,
        dns_rootname, 0,
        &lookup->namebuf);
}
if (result != ISC_R_SUCCESS) {
    dns_message_puttempname(lookup->sendmsg, &lookup->oname);
    fatal("'%s' is not a legal name "
        "("%s"), lookup->textname,
        isc_result_totext(result));
}

dns_name_format(lookup->name, store, sizeof(store));
dighost_trying(store, lookup);
INSIST(dns_name_isabsolute(lookup->name));

isc_random_get(&id);
lookup->sendmsg->id = (unsigned short)id & 0xFFFF;
lookup->sendmsg->opcode = lookup->opcode;
lookup->msgcounter = 0;

/*
 * If this is a trace request, completely disallow recursion after
 * looking up the root name servers, since it's meaningless for traces.
 */
if ((lookup->trace || lookup->ns_search_only) && !lookup->trace_root) {
    lookup->recurse = false;
}

if (lookup->recurse &&
    lookup->rdtype != dns_rdatatype_axfr &&
    lookup->rdtype != dns_rdatatype_ixfr) {
    debug("recursive query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_RD;
}

/* XXX aflag */
if (lookup->aaonly) {
    debug("AA query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AA;
}

if (lookup->adflag) {
    debug("AD query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AD;
}

if (lookup->cdflag) {
    debug("CD query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_CD;
}

if (lookup->zflag) {
    debug("Z query");
    lookup->sendmsg->flags |= 0x0040U;
}

dns_message_addname(lookup->sendmsg, lookup->name,
                       DNS_SECTION_QUESTION);

if (lookup->trace && lookup->trace_root) {
    lookup->qrdtype = lookup->rdtype;
    lookup->rdtype = dns_rdatatype_ns;
}
if ((lookup->rdtype == dns_rdatatype_axfr) ||
    (lookup->rdtype == dns_rdatatype_ixfr)) {
/*
 * Force TCP mode if we're doing an axfr.
 */
if (lookup->rdtype == dns_rdatatype_axfr) {
    lookup->doing_xfr = true;
    lookup->tcp_mode = true;
} else if (lookup->tcp_mode) {
    lookup->doing_xfr = true;
}
}

if (!lookup->header_only)
    add_question(lookup->sendmsg, lookup->name, lookup->rdclass,
                 lookup->rdtype);
/* add_soa */
if (lookup->rdtype == dns_rdatatype_ixfr)
    insert_soa(lookup);
/* XXX Insist this? */
lookup->tsigctx = NULL;
lookup->querysig = NULL;
if (tsigkey != NULL) {
    debug("initializing keys");
    result = dns_message_settsigkey(lookup->sendmsg, tsigkey);
    check_result(result, "dns_message_settsigkey");
}

lookup->sendspace = isc_mempool_get(commctx);
if (lookup->sendspace == NULL)
    fatal("memory allocation failure");

result = dns_compress_init(&cctx, -1, mctx);
check_result(result, "dns_compress_init");

desc("starting to render the message");
isc_buffer_init(&lookup->renderbuf, lookup->sendspace, COMMSIZE);
result = dns_message_renderbegin(lookup->sendmsg, &cctx,
 &lookup->renderbuf);
check_result(result, "dns_message_renderbegin");
if (lookup->udpsize > 0 || lookup->dnssec ||
    lookup->edns > -1 || lookup->ecs_addr != NULL)
    #define MAXOPTS (EDNSOPT_OPTIONS + DNS_EDNSOPTIONS)
dns_ednsopt_t opts[MAXOPTS];
unsigned int flags;
unsigned int i = 0;

if (lookup->udpsize == 0)
lookup->udpsize = 4096;
if (lookup->edns < 0)
lookup->edns = 0;

if (lookup->nsid) {
    INSIST(i < MAXOPTS);
    opts[i].code = DNS_OPT_NSID;
    opts[i].length = 0;
    opts[i].value = NULL;
    i++;
}

if (lookup->ecs_addr != NULL) {
    uint8_t addr[16];
    uint16_t family = 0;
    uint32_t plen;
    struct sockaddr *sa;
    struct sockaddr_in *sin;
    struct sockaddr_in6 *sin6;
    size_t addrl;

    sa = &lookup->ecs_addr->type.sa;
    plen = lookup->ecs_addr->length;

    /* Round up prefix len to a multiple of 8 */
    addrl = (plen + 7) / 8;

    INSIST(i < MAXOPTS);
    opts[i].code = DNS_OPT_CLIENT_SUBNET;
    opts[i].length = (uint16_t) addrl + 4;
    check_result(result, "isc_buffer_allocate");

    /*
     * XXXMUKS: According to RFC7871, "If there is
     * no ADDRESS set, i.e., SOURCE PREFIX-LENGTH is
     * set to 0, then FAMILY SHOULD be set to the
     * transport over which the query is sent."
     *
     * However, at this point we don't know what
     * transport(s) we'll be using, so we can't
     * set the value now. For now, we're using
     * IPv4 as the default the +subnet option
     * used an IPv4 prefix, or for +subnet=0,
     * and IPv6 if the +subnet option used an
     * IPv6 prefix.
     */

* (For future work: preserve the offset into
* the buffer where the family field is;
* that way we can update it in send_udp()
* or send_tcp_connect() once we know
* what it ought to be.)
*/
switch (sa->sa_family) {
case AF_UNSPEC:
    INSIST(plen == 0);
    family = 1;
    break;

case AF_INET:
    INSIST(plen <= 32);
    family = 1;
    sin = (struct sockaddr_in *) sa;
    memmove(addr, &sin->sin_addr, addrl);
    break;

case AF_INET6:
    INSIST(plen <= 128);
    family = 2;
    sin6 = (struct sockaddr_in6 *) sa;
    memmove(addr, &sin6->sin6_addr, addrl);
    break;

default:
    ISC_UNREACHABLE();
}

isc_buffer_init(&b, ecsbuf, sizeof(ecsbuf));
/* family */
isc_buffer_putuint16(&b, family);
/* source prefix-length */
isc_buffer_putuint8(&b, plen);
/* scope prefix-length */
isc_buffer_putuint8(&b, 0);
/* address */
if (addrl > 0) {
    /* Mask off last address byte */
    if ((plen % 8) != 0)
        addr[addrl - 1] &= ~0U << (8 - (plen % 8));
    isc_buffer_putmem(&b, addr,
        (unsigned)addrl);
}

opts[i].value = (uint8_t *) ecsbuf;
if (lookup->sendcookie) {
  INSIST(i < MAXOPTS);
  opts[i].code = DNS_OPT_COOKIE;
  if (lookup->cookie != NULL) {
    isc_buffer_init(&b, cookiebuf, sizeof(cookiebuf));
    result = isc_hex_decodestring(lookup->cookie, &b);
    check_result(result, "isc_hex_decodestring");
    opts[i].value = isc_buffer_base(&b);
    opts[i].length = isc_buffer_usedlength(&b);
  } else {
    compute_cookie(cookie, sizeof(cookie));
    opts[i].length = 8;
    opts[i].value = cookie;
  }
  i++;
}

if (lookup->expire) {
  INSIST(i < MAXOPTS);
  opts[i].code = DNS_OPT_EXPIRE;
  opts[i].length = 0;
  opts[i].value = NULL;
  i++;
}

if (lookup->ednsoptscnt != 0) {
  INSIST(i + lookup->ednsoptscnt <= MAXOPTS);
  memmove(&opts[i], lookup->ednsopts, sizeof(dns_ednsopt_t) * lookup->ednsoptscnt);
  i += lookup->ednsoptscnt;
}

flags = lookup->ednsflags;
flags &= ~DNS_MESSAGEEXTFLAG_DO;
if (lookup->dnssec)
  flags |= DNS_MESSAGEEXTFLAG_DO;
add_opt(lookup->sendmsg, lookup->udpsize, lookup->edns, flags, opts, i);
}

result = dns_message_rendersection(lookup->sendmsg, DNS_SECTION_QUESTION, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_rendersection(lookup->sendmsg, 
    DNS_SECTION_AUTHORITY, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_renderend(lookup->sendmsg);
check_result(result, "dns_message_renderend");
dbg("done rendering");

dns_compress_invalidate(&cctx);

/*
 * Force TCP mode if the request is larger than 512 bytes.
 */
if (isc_buffer_usedlength(&lookup->renderbuf) > 512)
lookup->tcp_mode = true;
lookup->pending = false;

for (serv = ISC_LIST_HEAD(lookup->my_server_list);
    serv != NULL;
    serv = ISC_LIST_NEXT(serv, link)) {
    query = isc_mem_allocate(mctx, sizeof(dig_query_t));
    if (query == NULL)
fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
    dbg("create query %p linked to lookup %p", 
        query, lookup);
    query->lookup = lookup;
    query->timer = NULL;
    query->waiting_connect = false;
    query->waiting_senddone = false;
    query->pending_free = false;
    query->recv_made = false;
    query->first_pass = true;
    query->first_soa_rcvd = false;
    query->second_rr_rcvd = false;
    query->first_repeat_rcvd = false;
    query->warn_id = true;
    query->timedout = false;
    query->first_rr_serial = 0;
    query->second_rr_serial = 0;
    query->servname = serv->servername;
    query->userarg = serv->userarg;
    query->rr_count = 0;
    query->msg_count = 0;
    query->byte_count = 0;
    query->ixfr_axfr = false;
    ISC_LIST_INIT(query->recvlist);
    ISC_LIST_INIT(query->lengthlist);
query->sock = NULL;
query->recvspace = isc_mempool_get(commctx);
if (query->recvspace == NULL)
fatal("memory allocation failure");
isc_buffer_init(&query->recvbuf, query->recvspace, COMMSIZE);
isc_buffer_init(&query->lengthbuf, query->lengthspace, 2);
isc_buffer_init(&query->slbuf, query->slspace, 2);
query->sendbuf = lookup->renderbuf;
ISC_LINK_INIT(query, clink);
ISC_LINK_INIT(query, link);
ISC_LIST_ENQUEUE(lookup->q, query, link);
}
/* XXX qrflag, print_query, etc... */
if (!ISC_LIST_EMPTY(lookup->q) && qr) {
extrabytes = 0;
dighost_printmessage(ISC_LIST_HEAD(lookup->q), lookup->sendmsg,
   true);
if (lookup->stats)
printf(";; QUERY SIZE: %u\n\n",
   isc_buffer_usedlength(&lookup->renderbuf));
}
return (true);
}

/*%
* Event handler for send completion. Track send counter, and clear out
* the query if the send was canceled.
*/
static void
send_done(isc_task_t *task, isc_event_t *event) {
isc_socketevent_t *sevent = (isc_socketevent_t *)event;
isc_buffer_t *b = NULL;
dig_query_t *query, *next;
dig_lookup_t *l;
REQUIRE(event->ev_type == ISC_SOCKEVENT_SENDDONE);

UNUSED(_task);

LOCK_LOOKUP;

dbug("send_done()");
sendcount--;
dbug("sendcount=%d", sendcount);
INSIST(sendcount >= 0);
for (b = ISC_LIST_HEAD(sevent->bufferlist);
    b != NULL;
    b = ISC_LIST_HEAD(sevent->bufferlist)) {
    ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);
    isc_mem_free(mctx, b);
}

query = event->ev_arg;
query->waiting_senddone = false;
l = query->lookup;

if (l->ns_search_only && !l->trace_root && !l->tcp_mode) {
    debug("sending next, since searching");
    next = ISC_LIST_NEXT(query, link);
    if (next != NULL)
        send_udp(next);
}

isc_event_free(&event);

if (query->pending_free)
    isc_mem_free(mctx, query);

check_if_done();
UNLOCK_LOOKUP;
}

/*%
* Cancel a lookup, sending isc_socket_cancel() requests to all outstanding
* IO sockets.  The cancel handlers should take care of cleaning up the
* query and lookup structures
*/
static void
cancel_lookup(dig_lookup_t *lookup) {
    dig_query_t *query, *next;

dbg("cancel_lookup()");
query = ISC_LIST_HEAD(lookup->q);
while (query != NULL) {
    next = ISC_LIST_NEXT(query, link);
    if (query->sock != NULL)
        isc_socket_cancel(query->sock, global_task,
                           ISC_SOCKCANCEL_ALL);
    if (next != NULL)
        send_udp(next);
}

isc_event_free(&event);

if (query->pending_free)
    isc_mem_free(mctx, query);

check_if_done();
UNLOCK_LOOKUP;
}
query = next;
}
lookup->pending = false;
lookup->retries = 0;
}

static void
bringup_timer(dig_query_t *query, unsigned int default_timeout) {
  dig_lookup_t *l;
  unsigned int local_timeout;
  isc_result_t result;

dbg("bringup_timer()");
/*
 * If the timer already exists, that means we're calling this
 * a second time (for a retry). Don't need to recreate it,
 * just reset it.
 */
  l = query->lookup;
  if (ISC_LINK_LINKED(query, link) && ISC_LIST_NEXT(query, link) != NULL)
    local_timeout = SERVER_TIMEOUT;
  else {
    if (timeout == 0)
      local_timeout = default_timeout;
    else
      local_timeout = timeout;
  }
  dbg("have local timeout of %d", local_timeout);
  isc_interval_set(&l->interval, local_timeout, 0);
  if (query->timer != NULL)
    isc_timer_detach(&query->timer);
  result = isc_timer_create(timermgr, isc_timertype_once, NULL,
    &l->interval, global_task, connect_timeout,
    query, &query->timer);
  check_result(result, "isc_timer_create");
}

static void
force_timeout(dig_query_t *query) {
  isc_event_t *event;

dbg("force_timeout ()");
  event = isc_event_allocate(mctx, query, ISC_TIMEREVENT_IDLE,
    connect_timeout, query,
    sizeof(isc_event_t));
  if (event == NULL) {
    fatal("isc_event_allocate: %s",
      isc_result_totext(ISC_R_NOMEMORY));
isc_task_send(global_task, &event);

/*
 * The timer may have expired if, for example, get_address() takes
 * long time and the timer was running on a different thread.
 * We need to cancel the possible timeout event not to confuse
 * ourselves due to the duplicate events.
 */
if (query->timer != NULL)
    isc_timer_detach(&query->timer);
}

static void
connect_done(isc_task_t *task, isc_event_t *event);

/*%
 * Unlike send_udp, this can't be called multiple times with the same
 * query. When we retry TCP, we requeue the whole lookup, which should
 * start anew.
 *%
*/
static void
send_tcp_connect(dig_query_t *query) {
    isc_result_t result;
    dig_query_t *next;
    dig_lookup_t *l;

    debug("send_tcp_connect(%p)", query);

    l = query->lookup;
    query->waiting_connect = true;
    query->lookup->current_query = query;
    result = get_address(query->servname, port, &query->sockaddr);
    if (result != ISC_R_SUCCESS) {
        /*
         * This servname doesn't have an address. Try the next server
         * by triggering an immediate 'timeout' (we lie, but the effect
         * is the same).
         */
        force_timeout(query);
        return;
    }

    if (!l->mapped && isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
        IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
        isc_netaddr_t netaddr;
        char buf[ISC_NETADDR_FORMATSIZE];
isc_netaddr_fromsockaddr(&netaddr, &query-&gt;sockaddr);
isc_netaddr_format(&netaddr, buf, sizeof(buf));
printf(";; Skipping mapped address '%s'", buf);

query-&gt;waiting_connect = false;
if (ISC_LINK_LINKED(query, link))
next = ISC_LIST_NEXT(query, link);
else
next = NULL;
if (next == NULL) {
printf(";; No acceptable nameservers\n");
check_next_lookup(l);
return;
}
send_tcp_connect(next);
return;

INSIST(query-&gt;sock == NULL);

if (keep != NULL &amp;&amp; isc_sockaddr_equal(&amp;keepaddr, &amp;query-&gt;sockaddr)) {
sockcount++;
isc_socket_attach(keep, &amp;query-&gt;sock);
query-&gt;waiting_connect = false;
launch_next_query(query, true);
goto search;
}

result = isc_socket_create(socketmgr,
isc_sockaddr_pf(&amp;query-&gt;sockaddr),
isc_sockettype_tcp, &amp;query-&gt;sock);
check_result(result, "isc_socket_create");
sockcount++;
dehug("sockcount=%d", sockcount);
if (query-&gt;lookup-&gt;dscp != -1)
isc_socket_dscp(query-&gt;sock, query-&gt;lookup-&gt;dscp);
isc_socket_ipv6only(query-&gt;sock, !query-&gt;lookup-&gt;mapped);
if (specified_source)
result = isc_socket_bind(query-&gt;sock, &amp;bind_address,
ISC_SOCKET_REUSEADDRESS);
else {
if (!isc_sockaddr_pf(&amp;query-&gt;sockaddr) == AF_INET) &amp;&amp;
have_ipv4)
isc_sockaddr_any(&amp;bind_any);
else
isc_sockaddr_any6(&bind_any);
result = isc_socket_bind(query->sock, &bind_any, 0);
}
check_result(result, "isc_socket_bind");
bringup_timer(query, TCP_TIMEOUT);
result = isc_socket_connect(query->sock, &query->sockaddr,
    global_task, connect_done, query);
check_result(result, "isc_socket_connect");
search:
/*
 * If we're at the endgame of a nameserver search, we need to
 * immediately bring up all the queries. Do it here.
 */
if (l->ns_search_only && !l->trace_root) {
    debug("sending next, since searching");
    if (ISC_LINK_LINKED(query, link)) {
        next = ISC_LIST_NEXT(query, link);
        ISC_LIST_DEQUEUE(l->q, query, link);
    } else
        next = NULL;
    ISC_LIST_ENQUEUE(l->connecting, query, clink);
    if (next != NULL)
        send_tcp_connect(next);
}

static isc_buffer_t *
clone_buffer(isc_buffer_t *source) {
    isc_buffer_t *buffer;
    buffer = isc_mem_allocate(mctx, sizeof(*buffer));
    if (buffer == NULL)
        fatal("memory allocation failure in %s:%d",
            __FILE__, __LINE__);
*buffer = *source;
    return (buffer);
}

/*%
 * Send a UDP packet to the remote nameserver, possible starting the
 * recv action as well. Also make sure that the timer is running and
 * is properly reset.
 */
static void
send_udp(dig_query_t *query) {
    dig_lookup_t *l = NULL;
    isc_result_t result;
    isc_buffer_t *sendbuf;
    dig_query_t *next;
debug("send_udp(%p)", query);

l = query->lookup;
bringup_timer(query, UDP_TIMEOUT);
l->current_query = query;
debug("working on lookup %p, query %p", query->lookup, query);
if (!query->recv_made) {
    /* XXX Check the sense of this, need assertion? */
    query->waiting_connect = false;
    result = get_address(query->servname, port, &query->sockaddr);
    if (result != ISC_R_SUCCESS) {
        /* This servname doesn't have an address. */
        force_timeout(query);
        return;
    }

    if (!l->mapped &&
            isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
            IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
        isc_netaddr_t netaddr;
        char buf[ISC_NETADDR_FORMATSIZE];

        isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
        isc_netaddr_format(&netaddr, buf, sizeof(buf));
        printf(";; Skipping mapped address '%s'", buf);

        next = ISC_LIST_NEXT(query, link);
l = query->lookup;
clear_query(query);
if (next == NULL) {
    printf(";; No acceptable nameservers\n");
    check_next_lookup(l);
} else {
    send_udp(next);
}
return;
}

result = isc_socket_create(socketmgr,
    isc_sockaddr_pf(&query->sockaddr),
    isc_sockettype_udp, &query->sock);
check_result(result, "isc_socket_create");
sockcount++;
debug("sockcount=%d", sockcount);
if (query->lookup->dscp != -1)
    isc_socket_dscp(query->sock, query->lookup->dscp);
isc_socket_ipv6only(query->sock,
if (specified_source) {
    result = isc_socket_bind(query->sock, &bind_address,
                            ISC_SOCKET_REUSEADDRESS);
} else {
    isc_sockaddr_anyofpf(&bind_any,
                         isc_sockaddr_pf(&query->sockaddr));
    result = isc_socket_bind(query->sock, &bind_any, 0);
}
check_result(result, "isc_socket_bind");

query->recv_made = true;
ISC_LINK_INIT(&query->recvbuf, link);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
debug("recving with lookup=%.p, query=%.p, sock=%.p", 
      query->lookup, query, query->sock);
result = isc_socket_recvv(query->sock, &query->recvlist, 1,
                          global_task, recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debug("recvcount=%d", recvcount);
}
ISC_LIST_INIT(query->sendlist);
sendbuf = clone_buffer(&query->sendbuf);
ISC_LIST_ENQUEUE(query->sendlist, sendbuf, link);
debug("sending a request");
TIME_NOW(&query->time_sent);
INSIST(query->sock != NULL);
query->waiting_senddone = true;
result = isc_socket_sendtov2(query->sock, &query->sendlist,
                              global_task, send_done, query, 
                              &query->sockaddr, NULL, 
                              ISC_SOCKFLAG_NORETRY);
check_result(result, "isc_socket_sendtov");
sendcount++;
}

/*%
 * If there are more servers available for querying within 'lookup', initiate a
 * TCP or UDP query to the next available server and return true; otherwise,
 * return false.
 */
static bool try_next_server(dig_lookup_t *lookup) {
    dig_query_t *current_query, *next_query;

    current_query = lookup->current_query;
if (current_query == NULL || !ISC_LINK_LINKED(current_query, link)) {
    return (false);
}

next_query = ISC_LIST_NEXT(current_query, link);
if (next_query == NULL) {
    return (false);
}

debug("trying next server...");

if (lookup->tcp_mode) {
    send_tcp_connect(next_query);
} else {
    send_udp(next_query);
}

return (true);
}

/*%
 * IO timeout handler, used for both connect and recv timeouts. If
 * retries are still allowed, either resend the UDP packet or queue a
 * new TCP lookup. Otherwise, cancel the lookup.
 *%
*/
static void
connect_timeout(isc_task_t *task, isc_event_t *event) {
    dig_lookup_t *l = NULL;
    dig_query_t *query = NULL;
    UNUSED(task);
    REQUIRE(event->ev_type == ISC_TIMEREVENT_IDLE);
    debug("connect_timeout()");
    LOCK_LOOKUP;
    query = event->ev_arg;
    l = query->lookup;
    isc_event_free(&event);
    INSIST(!free_now);
    if (cancel_now) {
        UNLOCK_LOOKUP;
        return;
    }
    if (try_next_server(l)) {
        dig_lookup_t *l1 = NULL;
        dig_query_t *query = NULL;
        UNUSED(task);
        REQUIRE(event->ev_type == ISC_TIMEREVENT_IDLE);
        debug("connect_timeout()");
        LOCK_LOOKUP;
        query = event->ev_arg;
        l1 = query->lookup;
        isc_event_free(&event);
        INSIST(!free_now);
        if (cancel_now) {
            UNLOCK_LOOKUP;
            return;
        }
        if (try_next_server(l1)) {
            send_tcp_connect(l1);
        } else {
            send_udp(l1);
        }
        return (true);
    }

    send_udp(l);
    return (false);
}

}
if (l->tcp_mode) {
    if (query->sock != NULL) {
        isc_socket_cancel(query->sock, NULL, ISC_SOCKCANCEL_ALL);
    } else {
        clear_query(query);
    }
}
UNLOCK_LOOKUP;
return;

if (l->tcp_mode && query->sock != NULL) {
    query->timedout = true;
    isc_socket_cancel(query->sock, NULL, ISC_SOCKCANCEL_ALL);
}

if (l->retries > 1) {
    if (!l->tcp_mode) {
        l->retries--;
        debug("resending UDP request to first server");
        send_udp(ISC_LIST_HEAD(l->q));
    } else {
        debug("making new TCP request, %d tries left",
            l->retries);
        l->retries--;
        requeue_lookup(l, true);
        cancel_lookup(l);
        check_next_lookup(l);
    }
} else {
    if (!l->ns_search_only) {
        puts(l->cmdline, stdout);
        printf(";; connection timed out; no servers could be "
            "reached\n");
    }
    cancel_lookup(l);
    check_next_lookup(l);
    if (exitcode < 9)
        exitcode = 9;
}
UNLOCK_LOOKUP;

/*%
 * Event handler for the TCP recv which gets the length header of TCP
 * packets. Start the next recv of length bytes.
 */
static void
tcp_length_done(isc_task_t *task, isc_event_t *event) {
isc_socketevent_t *sevent;
isc_buffer_t *b = NULL;
isc_result_t result;
dig_query_t *query = NULL;
dig_lookup_t *l, *n;
uint16_t length;

REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
INSIST(!free_now);

UNUSED(task);

debug("tcp_length_done()");

LOCK_LOOKUP;
sevent = (isc_socketevent_t *)event;
query = event->ev_arg;

recvcount--; 
INSIST(recvcount >= 0);

b = ISC_LIST_HEAD(sevent->bufferlist); 
INSIST(b == &query->lengthbuf); 
ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);

if (sevent->result == ISC_R_CANCELED) {
isc_event_free(&event);
l = query->lookup;
clear_query(query);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if (sevent->result != ISC_R_SUCCESS) {
char sockstr[ISC_SOCKADDR_FORMATSIZE];
isc_sockaddr_format(&query->sockaddr, sockstr, 
sizeof(sockstr));
printf(";; communications error to %s: %s\n", 
sockstr, isc_result_totext(sevent->result));
if (keep != NULL)
isc_socket_detach(&keep);
l = query->lookup;
isc_socket_detach(&query->sock);
sockcount--; 
debug("sockcount=%d", sockcount);
INSIST(sockcount >= 0);
if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
    n = requeue_lookup(l, true);
    n->eoferr++;
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
length = isc_buffer_getuint16(b);
if (length == 0) {
    isc_event_free(&event);
    launch_next_query(query, false);
    UNLOCK_LOOKUP;
    return;
}
/*
 * Even though the buffer was already init'ed, we need
 * to redo it now, to force the length we want.
 */
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_init(&query->recvbuf, query->recvspace, length);
ENSURE(ISC_LIST_EMPTY(query->recvlist));
ISC_LINK_INIT(&query->recvbuf, link);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
dumpf("recving with lookup=%p, query=%p", query->lookup, query);
result = isc_socket_recvv(query->sock, &query->recvlist, length, task,
    recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
dumpf("resubmitted recv request with length %d, recvcount=%d",
    length, recvcount);
isc_event_free(&event);
UNLOCK_LOOKUP;
}

/*%
 * For transfers that involve multiple recvs (XFR's in particular),
 * launch the next recv.
 */
static void
launch_next_query(dig_query_t *query, bool include_question) {
    isc_result_t result;
    dig_lookup_t *l;
    isc_buffer_t *buffer;
    ...
INSIST(!free_now);

dehub("launch_next_query()");

if (!query->lookup->pending) {
    debug("ignoring launch_next_query because !pending");
    isc_socket_detach(&query->sock);
    sockcount--;
    debug("sockcount=%d", sockcount);
    INSIST(sockcount >= 0);
    query->waiting_connect = false;
    l = query->lookup;
    clear_query(query);
    check_next_lookup(l);
    return;
}

isc_buffer_clear(&query->slbuf);
isc_buffer_clear(&query->lengthbuf);
isc_buffer_putuint16(&query->slbuf, (uint16_t) query->sendbuf.used);
ISC_LIST_INIT(query->sendlist);
ISC_LINK_INIT(&query->slbuf, link);
if (!query->first_soa_rcvd) {
    buffer = clone_buffer(&query->slbuf);
    ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
    if (include_question) {
        buffer = clone_buffer(&query->sendbuf);
        ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
    }
}

ISC_LINK_INIT(&query->lengthbuf, link);
ISC_LIST_ENQUEUE(query->lengthlist, &query->lengthbuf, link);

result = isc_socket_recvv(query->sock, &query->lengthlist, 0,
    global_task, tcp_length_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debug("recvcount=%d", recvcount);
if (!query->first_soa_rcvd) {
    debug("sending a request in launch_next_query");
    TIME_NOW(&query->time_sent);
    query->waiting_senddone = true;
    result = isc_socket_sendv(query->sock, &query->sendlist,
        global_task, send_done, query);
    check_result(result, "isc_socket_sendv");
    sendcount++;
debug("sendcount=%d", sendcount);
}
query->waiting_connect = false;
#if 0
check_next_lookup(query->lookup);
#endif
return;

/*%
 * Event handler for TCP connect complete. Make sure the connection was
 * successful, then pass into launch_next_query to actually send the
 * question.
 */
static void
connect_done(isc_task_t *task, isc_event_t *event) {
char sockstr[ISC_SOCKADDR_FORMATSIZE];
isc_socketevent_t *sevent = NULL;
dig_query_t *query = NULL, *next;
dig_lookup_t *l;
UNUSED(task);

REQUIRE(event->ev_type == ISC_SOCKEVENT_CONNECT);
INSIST(!free_now);

dbg("connect_done()");

LOCK_LOOKUP;
sevent = (isc_socketevent_t *)event;
query = sevent->ev_arg;

INSIST(query->waiting_connect);

query->waiting_connect = false;

if (sevent->result == ISC_R_CANCELED) {
  dbg("in cancel handler");
  isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
  if (query->timedout)
    printf(";; Connection to %s(%s) for %s failed: %s.\n",
      sockstr, query->servname,
      query->lookup->textname,
      isc_result_totext(ISC_R_TIMEDOUT));
  isc_socket_detach(&query->sock);
  INSIST(sockcount > 0);
  sockcount--;
  dbg("sockcount=%d", sockcount);
}
query->waiting_connect = false;
isc_event_free(&event);
l = query->lookup;
clear_query(query);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
} 
if (sevent->result != ISC_R_SUCCESS) {

dump("unsuccessful connection: %s",
     isc_result_totext(sevent->result));
isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
if (sevent->result != ISC_R_CANCELED)
    printf(";; Connection to %s(%s) for %s failed: ",
          sockstr, query->servname, query->lookup->textname,
          isc_result_totext(sevent->result));
isc_socket_detach(&query->sock);
INSIST(sockcount > 0);
sockcount--;
/* XXX Clean up exitcodes */
if (exitcode < 9)
    exitcode = 9;
    dump("sockcount=%d", sockcount);
query->waiting_connect = false;
isc_event_free(&event);
l = query->lookup;
if ((l->current_query != NULL) &&
     (ISC_LINK_LINKED(l->current_query, link)))
    next = ISC_LISTNEXT(l->current_query, link);
else
    next = NULL;
clear_query(query);
if (next != NULL) {
    bringup_timer(next, TCP_TIMEOUT);
send_tcp_connect(next);
} else
    check_next_lookup(l);
UNLOCK_LOOKUP;
return;
} 
exitcode = 0;
if (keep_open) {
    if (keep != NULL) 
        isc_socket_detach(&keep);
    isc_socket_attach(query->sock, &keep);
    keepaddr = query->sockaddr;
/*
 * Check if the ongoing XFR needs more data before it's complete, using
 * the semantics of IXFR and AXFR protocols. Much of the complexity of
 * this routine comes from determining when an IXFR is complete.
 * false means more data is on the way, and the recv has been issued.
 */

static bool
check_for_more_data(dig_query_t *query, dns_message_t *msg,
                      isc_socketevent_t *sevent)
{
  dns_rdataset_t *rdataset = NULL;
  dns_rdata_t rdata = DNS_RDATA_INIT;
  dns_rdata_soa_t soa;
  uint32_t ixfr_serial = query->lookup->ixfr_serial, serial;
  isc_result_t result;
  bool ixfr = query->lookup->rdtype == dns_rdatatype_ixfr;
  bool axfr = query->lookup->rdtype == dns_rdatatype_axfr;

  if (ixfr)
    axfr = query->ixfr_axfr;

  debug("check_for_more_data()");

  /*
   * By the time we're in this routine, we know we're doing
   * either an AXFR or IXFR. If there's no second_rr_type,
   * then we don't yet know which kind of answer we got back
   * from the server. Here, we're going to walk through the
   * rr's in the message, acting as necessary whenever we hit
   * an SOA rr.
   */

  query->msg_count++;
  query->byte_count += sevent->n;
  result = dns_message_firstname(msg, DNS_SECTION_ANSWER);
  if (result != ISC_R_SUCCESS) {
    puts("; Transfer failed.");
    return (true);
  }
  do {
    dns_name_t *name;
    name = NULL;

    /*
     * Check if the ongoing XFR needs more data before it's complete, using
     * the semantics of IXFR and AXFR protocols. Much of the complexity of
     * this routine comes from determining when an IXFR is complete.
     * false means more data is on the way, and the recv has been issued.
     */
for (rdataset = ISC_LIST_HEAD(name->list);
    rdataset != NULL;
    rdataset = ISC_LIST_NEXT(rdataset, link)) {
result = dns_rdataset_first(rdataset);
if (result != ISC_R_SUCCESS)
    continue;
do {
    query->rr_count++;
dns_rdata_reset(&rdata);
dns_rdataset_current(rdataset, &rdata);
/*
 * If this is the first rr, make sure
 * it's an SOA
 */
if (((query->first_soa_rcvd) &&
    (rdata.type != dns_rdatatype_soa))
    puts("; Transfer failed. ");
    "Didn't start with SOA answer.");
    return (true);
}
if (((query->second_rr_rcvd) &&
    (rdata.type != dns_rdatatype_soa))
    query->second_rr_rcvd = true;
    query->second_rr_serial = 0;
    debug("got the second rr as nonsoa");
    axfr = query->ixfr_axfr = true;
    goto next_rdata;
}
/*
 * If the record is anything except an SOA
 * now, just continue on...
 */
if (rdata.type != dns_rdatatype_soa)
goto next_rdata;
/* Now we have an SOA. Work with it. */
d debug("got an SOA");
result = dns_rdata_tostruct(&rdata, &soa, NULL);
check_result(result, "dns_rdata_tostruct");
serial = soa.serial;
dns_rdata_freestruct(&soa);
if (!query->first_soa_rcvd) {
    query->first_soa_rcvd = true;
    query->first_rr_serial = serial;
    debug("this is the first serial %u",}
if (ixfr && isc_serial_ge(ixfr_serial, serial)) {
    debug("got up to date ", "response");
goto doexit;
} goto next_rdata;

if (axfr) {
    debug("doing axfr, got second SOA");
goto doexit;
}

if (!query->second_rr_rcvd) {
    if (query->first_rr_serial == serial) {
        debug("doing ixfr, got " , "empty zone");
goto doexit;
    }
    debug("this is the second serial %u", serial);
    query->second_rr_rcvd = true;
    query->second_rr_serial = serial;
goto next_rdata;
}

/*
 * If we get to this point, we're doing an
 * IXFR and have to start really looking
 * at serial numbers.
 */
if (query->first_rr_serial == serial) {
    debug("got a match for ixfr");
    if (!query->first_repeat_rcvd) {
        query->first_repeat_rcvd =
        true;
        goto next_rdata;
    }
    debug("done with ixfr");
goto doexit;
}

debug("meaningless soa %u", serial);
next_rdata:
result = dns_rdataset_next(rdataset);
} while (result == ISC_R_SUCCESS);

result = dns_message_nextname(msg, DNS_SECTION_ANSWER);
} while (result == ISC_R_SUCCESS);
launch_next_query(query, false);
return (false);
doexit:
dighost_received(sevent->n, &sevent->address, query);
return (true);
}

static void
process_cookie(dig_lookup_t *l, dns_message_t *msg,
    isc_buffer_t *optbuf, size_t optlen)
{
    char bb[256];
    isc_buffer_t hexbuf;
    size_t len;
    const unsigned char *sent;
    bool copy = true;
    isc_result_t result;
    if (l->cookie != NULL) {
        isc_buffer_init(&hexbuf, bb, sizeof(bb));
        result = isc_hex_decodestring(l->cookie, &hexbuf);
        check_result(result, "isc_hex_decodestring");
        sent = isc_buffer_base(&hexbuf);
        len = isc_buffer_usedlength(&hexbuf);
    } else {
        sent = cookie;
        len = sizeof(cookie);
    }

    INSIST(msg->cc_ok == 0 && msg->cc_bad == 0);
    if (len >= 8 && optlen >= 8U) {
        if (isc_safe_memequal(isc_buffer_current(optbuf), sent, 8)) {
            msg->cc_ok = 1;
        } else {
            printf(";; Warning: Client COOKIE mismatch\n");
            msg->cc_bad = 1;
            copy = false;
        }
    } else {
        printf(";; Warning: COOKIE bad token (too short)\n");
        msg->cc_bad = 1;
        copy = false;
    }
    if (copy) {
        isc_region_t r;
        r.base = isc_buffer_current(optbuf);
        r.length = (unsigned int)optlen;
        isc_buffer_init(&hexbuf, servercookie, sizeof(servercookie));
    }
}
result = isc_hex_totext(&r, 2, ",", &hexbuf);
check_result(result, "isc_hex_totext");
if (isc_buffer_availablelength(&hexbuf) > 0) {
    isc_buffer_putuint8(&hexbuf, 0);
l->cookie = servercookie;
}
isc_buffer_forward(optbuf, (unsigned int)optlen);
}

static void
process_opt(dig_lookup_t *l, dns_message_t *msg) {
dns_rdata_t rdata;
isc_result_t result;
isc_buffer_t optbuf;
uint16_t optcode, optlen;
dns_rdataset_t *opt = msg->opt;
bool seen_cookie = false;

result = dns_rdataset_first(opt);
if (result == ISC_R_SUCCESS) {
dns_rdata_init(&rdata);
dns_rdataset_current(opt, &rdata);
isc_buffer_init(&optbuf, rdata.data, rdata.length);
isc_buffer_add(&optbuf, rdata.length);
while (isc_buffer_remaininglength(&optbuf) >= 4) {
    optcode = isc_buffer_getuint16(&optbuf);
    optlen = isc_buffer_getuint16(&optbuf);
    switch (optcode) {
    case DNS_OPT_COOKIE:
        /*
         * Only process the first cookie option.
         */
        if (seen_cookie) {
            isc_buffer_forward(&optbuf, optlen);
            break;
        }
        process_cookie(l, msg, &optbuf, optlen);
        seen_cookie = true;
        break;
    default:
        isc_buffer_forward(&optbuf, optlen);
        break;
    }
}

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static int
ednsvers(dns_rdataset_t *opt) {
  return ((opt->ttl >> 16) & 0xff);
}

/*
 * Event handler for recv complete. Perform whatever actions are necessary,
 * based on the specifics of the user's request.
 */
static void
recv_done(isc_task_t *task, isc_event_t *event) {
  isc_socketevent_t *sevent = NULL;
  dig_query_t *query = NULL;
  isc_buffer_t *b = NULL;
  dns_message_t *msg = NULL;
  #ifdef DIG_SIGCHASE
  dig_message_t *chase_msg = NULL;
  dig_message_t *chase_msg2 = NULL;
  #endif
  isc_result_t result;
  dig_lookup_t *n, *l;
  bool docancel = false;
  bool match = true;
  bool done_process_opt = false;
  unsigned int parseflags;
  dns_messageid_t id;
  unsigned int msgflags;
  #ifdef DIG_SIGCHASE
  isc_result_t do_sigchase = false;
  dns_message_t *msg_temp = NULL;
  isc_region_t r;
  isc_buffer_t *buf = NULL;
  #endif
  int newedns;

  UNUSED(task);
  INSIST(!free_now);

  debug("recv_done()");

  LOCK_LOOKUP;
  recvcount--;
  debug("recvcount=%d", recvcount);
  INSIST(recvcount >= 0);

  query = event->ev_arg;
  TIME_NOW(&query->time_recv);
debug("lookup=%p, query=%p", query->lookup, query);

l = query->lookup;

REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
sevent = (isc_socketevent_t *)event;

b = ISC_LIST_HEAD(sevent->bufferlist);
INSIST(b == &query->recvbuf);
ISC_LIST_DEQUEUE(sevent->bufferlist, &query->recvbuf, link);

if ((!(l->tcp_mode) && (query->timer != NULL))
isc_timer_touch(query->timer);
if (!((!l->pending && !l->ns_search_only) || cancel_now)) {
  debug("no longer pending.  Got %s",
  isc_result_totext(sevent->result));
  query->waiting_connect = false;

  isc_event_free(&event);
  clear_query(query);
  check_next_lookup(l);
  UNLOCK_LOOKUP;
  return;
}

if (sevent->result != ISC_R_SUCCESS) {
  if (sevent->result == ISC_R_CANCELED) {
    debug("in recv cancel handler");
    query->waiting_connect = false;
  } else {
    printf(";; communications error: %s\n",
    isc_result_totext(sevent->result));
    if (keep != NULL)
isc_socket_detach(&keep);
    isc_socket_detach(&query->sock);
    sockcount--;
    debug("sockcount=%d", sockcount);
    INSIST(sockcount >= 0);
  }
  if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
    n = requeue_lookup(l, true);
    n->eoferr++;
  }
  isc_event_free(&event);
  clear_query(query);
  cancel_lookup(l);
  check_next_lookup(l);
  UNLOCK_LOOKUP;
return;

if (!l->tcp_mode &&
    !isc_sockaddr_compare(&sevent->address, &query->sockaddr,
    ISC_SOCKADDR_CMPADDR
    ISC_SOCKADDR_CMPPORT
    ISC_SOCKADDR_CMPSCOPE
    ISC_SOCKADDR_CMPSCOPEZERO)) {
  char buf1[ISC_SOCKADDR_FORMATSIZE];
  char buf2[ISC_SOCKADDR_FORMATSIZE];
  isc_sockaddr_t any;

  if (isc_sockaddr_pf(&query->sockaddr) == AF_INET)
    isc_sockaddr_any(&any);
  else
    isc_sockaddr_any6(&any);

  /*
  * We don't expect a match when the packet is
  * sent to 0.0.0.0, :: or to a multicast addresses.
  * XXXMPA broadcast needs to be handled here as well.
  */
  if (!isc_sockaddr_eqaddr(&query->sockaddr, &any) &&
      !isc_sockaddr_ismulticast(&query->sockaddr) ||
      isc_sockaddr_getport(&query->sockaddr) !=
      isc_sockaddr_getport(&sevent->address)) {
    isc_sockaddr_format(&sevent->address, buf1,
                        sizeof(buf1));
    isc_sockaddr_format(&query->sockaddr, buf2,
                        sizeof(buf2));
    printf(";; reply from unexpected source: %s,
           expected %s\n", buf1, buf2);
    match = false;
  }
}

result = dns_message_peekheader(b, &id, &msgflags);
if (result != ISC_R_SUCCESS || l->sendmsg->id != id) {
  match = false;
  if (l->tcp_mode) {
    bool fail = true;
    if (result == ISC_R_SUCCESS) {
      if (!query->first_soa_rcvd ||
          query->warn_id)
        printf(";; %s: ID mismatch: ",
               query->first_soa_rcvd ?
               "expected %u\n",
               query->first_soa_rcvd ?
               "got %u\n",
               query->first_soa_rcvd ?
               "query->first_soa_rcvd ?
               "got %u\n",
               query->first_soa_rcvd ?
               "query->first_soa_rcvd ?
               "expected ID %u, got %u\n",
               query->first_soa_rcvd ?
               "got %u\n",
               query->first_soa_rcvd ?
               "query->first_soa_rcvd ?
               "expected ID %u, got %u\n",
               query->first_soa_rcvd ?
               "got %u\n",
               query->first_soa_rcvd ?
               "query->first_soa_rcvd ?
               "expected ID %u, got %u\n",
               query->first_soa_rcvd ?
               "got %u\n",
               query->first_soa_rcvd ?
               "query->first_soa_rcvd ?
               "expected ID %u, got %u\n",
               query->first_soa_rcvd ?
               "got %u\n",
               query->first_soa_rcv
"WARNING": "ERROR",
l->sendmsg->id, id);
if (query->first_soa_rcvd)
fail = false;
query->warn_id = false;
} else
printf(";; ERROR: short ")
"(< header size) message\n");
if (fail) {
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
match = true;
} else if (result == ISC_R_SUCCESS)
printf(";; Warning: ID mismatch: ")
"expected ID %u, got %u\n", l->sendmsg->id, id);
else
printf(";; Warning: short ")
"(< header size) message received\n");
}
if (result == ISC_R_SUCCESS && (msgflags & DNS_MESSAGEFLAG_QR) == 0)
printf(";; Warning: query response not set\n");
if (!match)
goto udp_mismatch;
result = dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE, &msg);
check_result(result, "dns_message_create");

if (tsigkey != NULL) {
if (l->querysig == NULL) {
dbg("getting initial querysig");
result = dns_message_getquerytsig(l->sendmsg, mctx,
&l->querysig);
check_result(result, "dns_message_getquerytsig");
}
result = dns_message_setquerytsig(msg, l->querysig);
check_result(result, "dns_message_setquerytsig");
result = dns_message_settsigkey(msg, tsigkey);
check_result(result, "dns_message_settsigkey");
msg->tsigctx = l->tsigctx;
l->tsigctx = NULL;
if (l->msgcounter != 0)
msg->tcp_continuation = 1;
l->msgcounter++;
}

debug("before parse starts");
parseflags = DNS_MESSAGEPARSE_PRESERVEORDER;
#ifdef DIG_SIGCHASE
if (l->sigchase) {
    do_sigchase = false;
} else {
    parseflags = 0;
    do_sigchase = true;
}
#endif
if (l->besteffort) {
    parseflags |= DNS_MESSAGEPARSE_BESTEFFORT;
parseflags |= DNS_MESSAGEPARSE_IGNORETRUNCATION;
}
result = dns_message_parse(msg, b, parseflags);
if (result == DNS_R_RECOVERABLE) {
    printf(";; Warning: Message parser reports malformed "
            "message packet.\n\n");
    result = ISC_R_SUCCESS;
}
if (result != ISC_R_SUCCESS) {
    printf(";; Got bad packet: %s\n", isc_result_totext(result));
    hex_dump(b);
    query->waiting_connect = false;
    dns_message_destroy(&msg);
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
if (msg->counts[DNS_SECTION_QUESTION] != 0) {
    match = true;
    for (result = dns_message_firstname(msg, DNS_SECTION_QUESTION);
        result == ISC_R_SUCCESS && match;
        result = dns_message_nextname(msg, DNS_SECTION_QUESTION)) {
        dns_name_t *name = NULL;
        dns_rdataset_t *rdataset;

        dns_message_currentname(msg, DNS_SECTION_QUESTION,
            &name);
        for (rdataset = ISC_LIST_HEAD(name->list);
            rdataset != NULL;
            rdataset != NULL;
rdataset = ISC_LIST_NEXT(rdataset, link))

if (l->rdtype != rdataset->type ||
    l->rdclass != rdataset->rdclass ||
    !dns_name_equal(l->name, name)) {
    char namestr[DNS_NAME_FORMATSIZE];
    char typebuf[DNS_RDATATYPE_FORMATSIZE];
    char classbuf[DNS_RDATACLASS_FORMATSIZE];
    dns_name_format(name, namestr,
                    sizeof(namestr));
    dns_rdatatype_format(rdataset->type,
                         typebuf,
                         sizeof(typebuf));
    dns_rdataclass_format(rdataset->rdclass,
                          classbuf,
                          sizeof(classbuf));
    printf(";; Question section mismatch: got %s/%s/%s\n",
           namestr, typebuf, classbuf);
    match = false;
}

if (!match) {
    dns_message_destroy(&msg);
    if (l->tcp_mode) {
        isc_event_free(&event);
        clear_query(query);
        cancel_lookup(l);
        check_next_lookup(l);
        UNLOCK_LOOKUP;
        return;
    } else
        goto udp_mismatch;
}

if (msg->rcode == dns_rcode_badvers && msg->opt != NULL &&
    (newedns = ednsvers(msg->opt)) < l->edns && l->ednsneg) {
/*
 * Add minimum EDNS version required checks here if needed.
 */
    if (l->comments)
        printf(";; BADVERS, retrying with EDNS version %u.\n",
               (unsigned int)newedns);
    l->edns = newedns;
    n = requeue_lookup(l, true);
    if (l->trace && l->trace_root)
        n->rdtype = l->qrdtype;
    dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if ((msg->flags & DNS_MESSAGEFLAG_TC) != 0 &&
   !l->ignore && !l->tcp_mode) {
if (l->cookie == NULL && l->sendcookie && msg->opt != NULL)
    process_opt(l, msg);
if (l->comments)
    printf(";; Truncated, retrying in TCP mode.\n");
n = requeue_lookup(l, true);
n->tcp_mode = true;
if (l->trace && l->trace_root)
    n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if (msg->rcode == dns_rcode_badcookie && !l->tcp_mode &&
    l->sendcookie && l->badcookie) {
    process_opt(l, msg);
    if (msg->cc_ok) {
        if (l->comments)
            printf(";; BADCOOKIE, retrying\n",
                l->seenbadcookie ? " in TCP mode": "");
n = requeue_lookup(l, true);
if (l->seenbadcookie)
    n->tcp_mode = true;
n->seenbadcookie = true;
if (l->trace && l->trace_root)
    n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
done_process_opt = true;
}
if ((msg->rcode == dns_rcode_servfail && !l->servfail_stops) ||
    (check_ra && (msg->flags & DNS_MESSAGEFLAG_RA) == 0 && l->recurse))
{
    dig_query_t *next = ISC_LIST_NEXT(query, link);
    if (l->current_query == query)
        l->current_query = NULL;
    if (next != NULL) {
        debug("sending query %p\n", next);
        if (l->tcp_mode)
            send_tcp_connect(next);
        else
            send_udp(next);
    }
/*
 * If our query is at the head of the list and there
 * is no next, we're the only one left, so fall
 * through to print the message.
 */
if ((ISC_LIST_HEAD(l->q) != query) ||
    (ISC_LIST_NEXT(query, link) != NULL)) {
    if (l->comments)
        printf(";; Got %s from %s, ",
            "trying next server\n",
            msg->rcode == dns_rcode_servfail ?
            "SERVFAIL reply" :
            "recursion not available",
            query->servname);
    clear_query(query);
    check_next_lookup(l);
    dns_message_destroy(&msg);
    isc_event_free(&event);
    UNLOCK_LOOKUP;
    return;
}
}

if (tsigkey != NULL) {
    result = dns_tsig_verify(&query->recvbuf, msg, NULL, NULL);
    if (result != ISC_R_SUCCESS) {
        printf(";; Couldn't verify signature: %s\n",
            isc_result_totext(result));
        validated = false;
    }
    l->tsigctx = msg->tsigctx;
    msg->tsigctx = NULL;
    if (l->querysig != NULL) {
        debug("freeing querysig buffer %p", l->querysig);
        isc_buffer_free(&l->querysig);
    }
}
result = dns_message_getquerytsig(msg, mctx, &l->querysig);
check_result(result, "dns_message_getquerytsig");
}

extrabytes = isc_buffer_remaininglength(b);

dump("after parse");
if (l->doing_xfr && l->xfr_q == NULL) {
l->xfr_q = query;
/*
 * Once we are in the XFR message, increase
 * the timeout to much longer, so brief network
 * outages won't cause the XFR to abort
 */
if (timeout != INT_MAX && query->timer != NULL) {
  unsigned int local_timeout;
  if (timeout == 0) {
    if (l->tcp_mode)
      local_timeout = TCP_TIMEOUT * 4;
    else
      local_timeout = UDP_TIMEOUT * 4;
  } else {
    if (timeout < (INT_MAX / 4))
      local_timeout = timeout * 4;
    else
      local_timeout = INT_MAX;
  }
  debug("have local timeout of %d", local_timeout);
  isc_interval_set(&l->interval, local_timeout, 0);
  result = isc_timer_reset(query->timer,
    isc_timertype_once,
    NULL,
    &l->interval,
    false);
  check_result(result, "isc_timer_reset");
}

if (!done_process_opt) {
  if (l->cookie != NULL) {
    if (msg->opt == NULL) {
      printf(";; expected opt record in response\n");
    } else {
      process_opt(l, msg);
    }
  } else if (l->sendcookie && msg->opt != NULL) {

process_opt(l, msg);
}
}
if (!l->doing_xfr || l->xfr_q == query) {
if (msg->rcode == dns_rcode_nxdomain &&
    (!l->origin != NULL || l->need_search)) {
    if (!next_origin(query->lookup) || showsearch) {
        dighost_printmessage(query, msg, true);
        dighost_received(b->used, &sevent->address, query);
    }
} else if (!l->trace && !l->ns_search_only) {
    #ifdef DIG_SIGCHASE
    if (!do_sigchase)
    #endif
        dighost_printmessage(query, msg, true);
} else if (l->trace) {
    int nl = 0;
    int count = msg->counts[DNS_SECTION_ANSWER];

ddebug("in TRACE code");
if (!l->ns_search_only)
    dighost_printmessage(query, msg, true);

    l->rdtype = l->qrdtype;
    if (!l->trace_root || (l->ns_search_only & count > 0)) {
        if (!l->trace_root)
            l->rdtype = dns_rdatatype_soa;
        nl = followup_lookup(msg, query,
            DNS_SECTION_ANSWER);
        l->trace_root = false;
    } else if (count == 0)
        nl = followup_lookup(msg, query,
            DNS_SECTION_AUTHORITY);
    if (nl == 0)
        docancel = true;
} else {
    debug("in NSSEARCH code");

    if (l->trace_root) {
    /*
    * This is the initial NS query.
    */
    int nl;

    l->rdtype = dns_rdatatype_soa;
    nl = followup_lookup(msg, query,
        DNS_SECTION_ANSWER);
    if (nl == 0)
docancel = true;
l->trace_root = false;
usesearch = false;
} else
#ifdef DIG_SIGCHASE
if (!do_sigchase)
#endif
dighost_printmessage(query, msg, true);
}
#ifdef DIG_SIGCHASE
if (do_sigchase) {
    chase_msg = isc_mem_allocate(mctx,
        sizeof(dig_message_t));
    if (chase_msg == NULL) {
        fatal("Memory allocation failure in %s:%d",
            __FILE__, __LINE__);
    }
    ISC_LIST_INITANDAPPEND(chase_message_list, chase_msg,
        link);
    if (dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE,
        &msg_temp) != ISC_R_SUCCESS) {
        fatal("dns_message_create in %s:%d",
            __FILE__, __LINE__);
    }
    isc_buffer_usedregion(b, &r);
    result = isc_buffer_allocate(mctx, &buf, r.length);
    check_result(result, "isc_buffer_allocate");
    result = isc_buffer_copyregion(buf, &r);
    check_result(result, "isc_buffer_copyregion");
    result = dns_message_parse(msg_temp, buf, 0);
    isc_buffer_free(&buf);
    chase_msg->msg = msg_temp;
}
    chase_msg2 = isc_mem_allocate(mctx,
        sizeof(dig_message_t));
    if (chase_msg2 == NULL) {
        fatal("Memory allocation failure in %s:%d",
            __FILE__, __LINE__);
    }
    ISC_LIST_INITANDAPPEND(chase_message_list2, chase_msg2,
        link);
    chase_msg2->msg = msg;
}
#endif
if (l->pending)
  debug("still pending.");
if (l->doing_xfr) {
  if (query != l->xfr_q) {
    dns_message_destroy(&msg);
    isc_event_free(&event);
    query->waiting_connect = false;
    UNLOCK_LOOKUP;
    return;
  }
  if (!docancel)
    docancel = check_for_more_data(query, msg, sevent);
  if (docancel) {
    dns_message_destroy(&msg);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
  } else {
    if (msg->rcode == dns_rcode_noerror || l->origin == NULL) {
      #ifdef DIG_SIGCHASE
        if (!l->sigchase)
      #endif
        dighost_received(b->used, &sevent->address, query);
      }
      if (!query->lookup->ns_search_only)
        query->lookup->pending = false;
      if (!query->lookup->ns_search_only ||
        query->lookup->trace_root || docancel) {
        #ifdef DIG_SIGCHASE
          if (!do_sigchase)
        #endif
        dns_message_destroy(&msg);
        cancel_lookup(l);
      } else {
        clear_query(query);
check_next_lookup(l);
}
if (msg != NULL) {
#ifdef DIG_SIGCHASE
if (do_sigchase)
msg = NULL;
else
#endif
dns_message_destroy(&msg);
}
isc_event_free(&event);
UNLOCK_LOOKUP;
return;

udp_mismatch:
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_init(&query->recvbuf, query->recvspace, COMMSIZE);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
result = isc_socket_recvv(query->sock, &query->recvlist, 1,
    global_task, recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
isc_event_free(&event);
UNLOCK_LOOKUP;
return;
}

/*%
* Turn a name into an address, using system-supplied routines. This is
* used in looking up server names, etc... and needs to use system-supplied
* routines, since they may be using a non-DNS system for these lookups.
*/
isc_result_t
get_address(char *host, in_port_t myport, isc_sockaddr_t *sockaddr) {
int count;
isc_result_t result;
bool is_running;

is_running = isc_app_isrunning();
if (is_running)
isc_app_block();
result = bind9_getaddresses(host, myport, sockaddr_t *sockaddr, 1, &count);
if (is_running)
isc_app_unblock();
if (result != ISC_R_SUCCESS)
return (result);

INSIST(count == 1);
int
getaddresses(dig_lookup_t *lookup, const char *host, isc_result_t *resultp) {
isc_result_t result;
isc_sockaddr_t sockaddr[DIG_MAX_ADDRESSES];
isc_netaddr_t netaddr;
int count, i;
dig_server_t *srv;
char tmp[ISC_NETADDR_FORMATSIZE];

result = bind9_getaddresses(host, 0, sockaddr,
    DIG_MAX_ADDRESSES, &count);
if (resultp != NULL)
    *resultp = result;
if (result != ISC_R_SUCCESS) {
    if (resultp == NULL)
        fatal("couldn't get address for '%s': %s",
            host, isc_result_totext(result));
    return (0);
}

for (i = 0; i < count; i++) {
    isc_netaddr_fromsockaddr(&netaddr, &sockaddr[i]);
    isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
    srv = make_server(tmp, host);
    ISC_LIST_APPEND(lookup->my_server_list, srv, link);
}

return (count);
}

/*%
 * Initiate either a TCP or UDP lookup
 */
void
do_lookup(dig_lookup_t *lookup) {
    dig_query_t *query;

    REQUIRE(lookup != NULL);

ddebug("do_lookup()");
lookup->pending = true;
query = ISC_LIST_HEAD(lookup->q);
if (query != NULL) {
    if (lookup->tcp_mode)
send_tcp_connect(query);
else
send_udp(query);
}

/*
 * Start everything in action upon task startup.
 */
void
onrun_callback(isc_task_t *task, isc_event_t *event)
{
    UNUSED(task);
    isc_event_free(&event);
    LOCK_LOOKUP;
    start_lookup();
    UNLOCK_LOOKUP;
}

/*
 * Make everything on the lookup queue go away. Mainly used by the
 * SIGINT handler.
 */
void
cancel_all(void)
{
    dig_lookup_t *l, *n;
    dig_query_t *q, *nq;

debug("cancel_all()");

    LOCK_LOOKUP;
    if (free_now) {
        UNLOCK_LOOKUP;
        return;
    }
    cancel_now = true;
    if (current_lookup != NULL) {
        for (q = ISC_LIST_HEAD(current_lookup->q);
            q != NULL;
            q = nq)
        {
            nq = ISC_LIST_NEXT(q, link);
            debug("canceling pending query %p, belonging to %p",
                q, current_lookup);
            if (q->sock != NULL)
                isc_socket_cancel(q->sock, NULL,
                    ISC_SOCKCANCEL_ALL);
            else
                /*
                 ...
                 */

            /*
             ...
             */
        }
        /*
         ...
         */
    }
    isc_event_free(&event);
    LOCK_LOOKUP;
    start_lookup();
    UNLOCK_LOOKUP;
}
clear_query(q);
}
for (q = ISC_LIST_HEAD(current_lookup->connecting);
    q != NULL;
    q = nq)
{
    nq = ISC_LIST_NEXT(q, clink);
    debug("canceling connecting query %p, belonging to %p",
        q, current_lookup);
    if (q->sock != NULL)
        isc_socket_cancel(q->sock, NULL,
            ISC_SOCKCANCEL_ALL);
    else
        clear_query(q);
}
}
}
l = ISC_LIST_HEAD(lookup_list);
while (l != NULL) {
    n = ISC_LIST_NEXT(l, link);
    ISC_LIST_DEQUEUE(lookup_list, l, link);
    try_clear_lookup(l);
    l = n;
}           
UNLOCK_LOOKUP;
}

/*%
 * Destroy all of the libs we are using, and get everything ready for a
 * clean shutdown.
 */
void
destroy_libs(void) {
#ifdef DIG_SIGCHASE
    void * ptr;
    dig_message_t *chase_msg;
#endif
#ifdef WITH_IDN_SUPPORT
    isc_result_t result;
#endif
    if (keep != NULL)
        isc_socket_detach(&keep);
    debug("destroy_libs()”);
    if (global_task != NULL) {
        debug("freeing task”);
        isc_task_detach(&global_task);
    }
    */
* The taskmgr_destroy() call blocks until all events are cleared
* from the task.
*/
if (taskmgr != NULL) {
  debug("freeing taskmgr");
  isc_taskmgr_destroy(&taskmgr);
}
LOCK_LOOKUP;
REQUIRE(sockcount == 0);
REQUIRE(reccount == 0);
REQUIRE(sendcount == 0);

INSIST(ISC_LIST_HEAD(lookup_list) == NULL);
INSIST(current_lookup == NULL);
INSIST(!free_now);

free_now = true;

lwres_conf_clear(lwctx);
lwres_context_destroy(&lwctx);
flush_server_list();
clear_searchlist();

#ifdef WITH_IDN_SUPPORT
result = dns_name_settotextfilter(NULL);
check_result(result, "dns_name_settotextfilter");
#endif
dns_name_destroy();

if (commctx != NULL) {
  debug("freeing commctx");
  isc_mempool_destroy(&commctx);
}
if (socketmgr != NULL) {
  debug("freeing socketmgr");
  isc_socketmgr_destroy(&socketmgr);
}
if (timermgr != NULL) {
  debug("freeing timermgr");
  isc_timermgr_destroy(&timermgr);
}
if (tsigkey != NULL) {
  debug("freeing key %p", tsigkey);
  dns_tsigkey_detach(&tsigkey);
}
if (namebuf != NULL)
isc_buffer_free(&namebuf);

if (is_dst_up) {
    debug("destroy DST lib");
    dst_lib_destroy();
    is_dst_up = false;
}
if (entp != NULL) {
    debug("detach from entropy");
    isc_entropy_detach(&entp);
}

UNLOCK_LOOKUP;
DESTROYLOCK(&lookup_lock);
#ifdef DIG_SIGCHASE

dbg("Destroy the messages kept for sigchase");
/* Destroy the messages kept for sigchase */
chase_msg = ISC_LIST_HEAD(chase_message_list);

while (chase_msg != NULL) {
    INSIST(chase_msg->msg != NULL);
    dns_message_destroy(&(chase_msg->msg));
    ptr = chase_msg;
    chase_msg = ISC_LIST_NEXT(chase_msg, link);
    isc_mem_free(mctx, ptr);
}

chase_msg = ISC_LIST_HEAD(chase_message_list2);

while (chase_msg != NULL) {
    INSIST(chase_msg->msg != NULL);
    dns_message_destroy(&(chase_msg->msg));
    ptr = chase_msg;
    chase_msg = ISC_LIST_NEXT(chase_msg, link);
    isc_mem_free(mctx, ptr);
}

if (dns_name_dynamic(&chase_name))
    free_name(&chase_name);
#if DIG_SIGCHASE_TD
if (dns_name_dynamic(&chase_current_name))
    free_name(&chase_current_name);
if (dns_name_dynamic(&chase_authority_name))
    free_name(&chase_authority_name);
#endif
#if DIG_SIGCHASE_BU
if (dns_name_dynamic(&chase_signame))
    free_name(&chase_signame);
debug("Removing log context");
isc_log_destroy(&lctx);

deploy("Destroy memory");
if (memdebugging != 0)
isc_mem_stats(mctx, stderr);
if (mctx != NULL)
isc_mem_destroy(&mctx);
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
output_filter(isc_buffer_t *buffer, unsigned int used_org,
       bool absolute)
{
    char tmp1[MAXDLEN], tmp2[MAXDLEN];
    size_t fromlen, tolen;
    bool end_with_dot;
    isc_result_t result;

    /*
     * Copy contents of 'buffer' to 'tmp1', supply trailing dot
     * if 'absolute' is true, and terminate with NUL.
     */
    fromlen = isc_buffer_usedlength(buffer) - used_org;
    if (fromlen >= MAXDLEN)
return (ISC_R_SUCCESS);
    memmove(tmp1, (char *)isc_buffer_base(buffer) + used_org, fromlen);
    end_with_dot = (tmp1[fromlen - 1] == '.') ? true : false;
    if (absolute && !end_with_dot) {
fromlen++;
    if (fromlen >= MAXDLEN)
return (ISC_R_SUCCESS);
    tmp1[fromlen - 1] = ' ';
    }

tmp1[fromlen] = '\0';

    /*
     * Convert contents of 'tmp1' to local encoding.
     */
    result = idn_ace_to_locale(tmp1, tmp2, sizeof(tmp2));
    if (result != ISC_R_SUCCESS) {
return (ISC_R_SUCCESS);
}
* Copy the converted contents in 'tmp1' back to 'buffer'.
* If we have appended trailing dot, remove it.
*/
tolen = strlen(tmp2);
if (absolute && !end_with_dot && tmp2[tolen - 1] == '.
tolen--;

if (isc_buffer_length(buffer) < used_org + tolen)
return (ISC_R_NOSPACE);

isc_buffer_subtract(buffer, isc_buffer_usedlength(buffer) - used_org);
memmove(isc_buffer_used(buffer), tmp2, tolen);
isc_buffer_add(buffer, (unsigned int)tolen);

return (ISC_R_SUCCESS);
}
#endif

#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
static void
idnkit_check_result(idn_result_t result, const char *msg) {
if (result != idn_success) {
fatal("%s: %s", msg, idn_result_tostring(result));
}
}

static void
idn_initialize(void) {
  idn_result_t result;

  /* Create configuration context. */
  result = idn_nameinit(1);
  idnkit_check_result(result, "idnkit api initialization failed");
  return (ISC_R_SUCCESS);
}

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
  char utf8_textname[MXNAME];
  idn_result_t result;

  /* Create configuration context. */
  result = idn_nameinit(1);
  idnkit_check_result(result, "idnkit api initialization failed");
  return (ISC_R_SUCCESS);
}

static isc_result_t
idnlocale_to_ace(const char *from, char *to, size_t tolen) {
  char utf8_textname[MXNAME];
  idn_result_t result;

  result = idn_nameinit(1);
  idnkit_check_result(result, "idnkit api initialization failed");

  result = idn_encodename(IDN_LOCALCONV | IDN_DELIMMAP, from,
                          utf8_textname, sizeof(utf8_textname));
  idnkit_check_result(result, "idnkit idn_encodename to utf8 failed");

  return (ISC_R_SUCCESS);
}
result = idn_encodename(idnoptions | IDN_LOCALMAP | IDN_NAMEPREP | IDN_IDNCONV | IDN_LENCHECK, utf8_textname, to, tolen);
idnkit_check_result(result, "idnkit idn_encodename to idn failed");
return (ISC_R_SUCCESS);
}

static isc_result_t idn_ace_to_locale(const char *from, char *to, size_t tolen) {
    idn_result_t result;
    result = idn_decodename(IDN_DECODE_APP, from, to, tolen);
    if (result != idn_success) {
        debug("idnkit idn_decodename failed: %s", idn_result_tostring(result));
        return (ISC_R_FAILURE);
    }
    return (ISC_R_SUCCESS);
}
#endif /* WITH_IDNKIT */

#ifdef WITH_LIBIDN2
static void idn_initialize(void) {

}

static isc_result_t idn_locale_to_ace(const char *from, char *to, size_t tolen) {
    int res;
    char *tmp_str = NULL;
    res = idn2_to_ascii_lz(from, &tmp_str, IDN2_NONTRANSITIONAL | IDN2_NFC_INPUT);
    if (res == IDN2_DISALLOWED) {
        res = idn2_to_ascii_lz(from, &tmp_str, IDN2_TRANSITIONAL | IDN2_NFC_INPUT);
    }
    if (res == IDN2_OK) {
        /*
         * idn2_to_ascii_lz() normalizes all strings to lowercase,
         * but we generally don't want to lowercase all input strings;
         * make sure to return the original case if the two strings
         * differ only in case
         * /
         * if (!strcasecmp(from, tmp_str)) {
         * if (strlen(from) >= tolen) {
         * debug("from string is too long");
         * idn2_free(tmp_str);
         * return ISC_R_NOSPACE;
         
         */
        if (!strcasecmp(from, tmp_str)) {
            if (strlen(from) >= tolen) {
                debug("from string is too long");
                idn2_free(tmp_str);
                return ISC_R_NOSPACE;
            }
$idn2_free(tmp_str);
(void) strlcpy(to, from, tolen);
return ISC_R_SUCCESS;
}

/* check the length */
if (strlen(tmp_str) >= tolen) {
    debug("ACE string is too long");
    idn2_free(tmp_str);
    return ISC_R_NOSPACE;
}

(void) strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return ISC_R_SUCCESS;
}

fatal("%s' is not a legal IDN name (%s), use +noidnin", from, idn2_strerror(res));
return ISC_R_FAILURE;
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
    int res;
    char *utf8_src, *tmp_str = NULL;

    /*
     * We need to:
     * 1) check whether 'from' is a valid IDNA2008 name,
     * 2) if it is, output it in the current locale's character encoding.
     * Unlike idn2_to_ascii_*(), idn2_to_unicode_*() functions are unable
     * to perform IDNA2008 validity checks. Thus, we need to decode any
     * Punycode in 'from', check if the resulting name is a valid IDNA2008
     * name, and only once we ensure it is, output that name in the current
     * locale's character encoding.
     * We could just use idn2_to_unicode_8zIz() + idn2_to_ascii lz(), but
     * then we would not be able to universally tell invalid names and
     * character encoding errors apart (if the current locale uses ASCII
     * for character encoding, the former function would fail even for a
     * valid IDNA2008 name, as long as it contained any non-ASCII
     * character). Thus, we need to take a longer route.
     * First, convert 'from' to UTF-8, ignoring the current locale.
     */

}
res = idn2_to_unicode_8z8z(from, &utf8_src, 0);
if (res != IDN2_OK) {
  fatal("Bad ACE string '%s' ("%s"), use +noidnout",
        from, idn2_strerror(res));
}

/*
 * Then, check whether decoded 'from' is a valid IDNA2008 name.
 */
res = idn2_to_ascii_8z(utf8_src, NULL, IDN2_NONTRANSITIONAL);
if (res != IDN2_OK) {
  fatal("'%s' is not a legal IDNA2008 name ("%s"), use +noidnout",
        from, idn2_strerror(res));
}

/*
 * Finally, try converting the decoded 'from' into the current locale's
 * character encoding.
 */
res = idn2_to_unicode_8zlz(utf8_src, &tmp_str, 0);
if (res != IDN2_OK) {
  fatal("Cannot represent '%s' in the current locale ("%s")",
        "use +noidnout or a different locale",
        from, idn2_strerror(res));
}

/*
 * Free the interim conversion result.
 */
idn2_free(utf8_src);

/* check the length */
if (strlen(tmp_str) >= tolen) {
  debug("encoded ASC string is too long");
  idn2_free(tmp_str);
  return (ISC_R_FAILURE);
}

(void) strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return (ISC_R_SUCCESS);

#endif /* WITH_IDN_OUT_SUPPORT */
#endif /* WITH_LIBIDN2 */
#endif /* WITH_IDN_SUPPORT */

#ifdef DIG_SIGCHASE

void
print_type(dns_rdatatype_t type) {
  isc_buffer_t * b = NULL;
  isc_result_t result;
  isc_region_t r;

  result = isc_buffer_allocate(mctx, &b, 4000);
  check_result(result, "isc_buffer_allocate");

  result = dns_rdatatype_totext(type, b);
  check_result(result, "print_type");

  isc_buffer_usedregion(b, &r);
  r.base[r.length] = '\0';

  printf("%s", r.base);

  isc_buffer_free(&b);
}

void dump_database_section(dns_message_t *msg, int section) {
  dns_name_t *msg_name=NULL;
  dns_rdataset_t *rdataset;

  do {
    dns_message_currentname(msg, section, &msg_name);

    for (rdataset = ISC_LIST_HEAD(msg_name->list); rdataset != NULL;
     rdataset = ISC_LIST_NEXT(rdataset, link)) {
      dns_name_print(msg_name, stdout);
      printf("\n");
      print_rdataset(msg_name, rdataset);
      printf("end\n");
    }
    msg_name = NULL;
  } while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);
}

void dump_database(void) {
  dig_message_t * msg;

  for (msg = ISC_LIST_HEAD(chase_message_list); msg != NULL;
   msg = ISC_LIST_NEXT(msg, link)) {
    if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER)
== ISC_R_SUCCESS)
dump_database_section(msg->msg, DNS_SECTION_ANSWER);

if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY)
    == ISC_R_SUCCESS)
dump_database_section(msg->msg, DNS_SECTION_AUTHORITY);

if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL)
    == ISC_R_SUCCESS)
dump_database_section(msg->msg, DNS_SECTION_ADDITIONAL);
}


dns_rdataset_t *
search_type(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers) {
    dns_rdataset_t *rdataset;
    dns_rdata_sig_t siginfo;
    dns_rdata_t sigrdata = DNS_RDATA_INIT;
    isc_result_t result;

    for (rdataset = ISC_LIST_HEAD(name->list); rdataset != NULL;
         rdataset = ISC_LIST_NEXT(rdataset, link)) {
        if (type == dns_rdatatype_any) {
            if (rdataset->type != dns_rdatatype_rrsig)
                return (rdataset);
        } else if ((type == dns_rdatatype_rrsig) &&
                   (rdataset->type == dns_rdatatype_rrsig)) {
            result = dns_rdataset_first(rdataset);
            check_result(result, "empty rdataset");
            dns_rdataset_current(rdataset, &sigrdata);
            result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
            check_result(result, "sigrdata tostruct siginfo");

            if (((siginfo.covered == covers) ||
                 (covers == dns_rdatatype_any)) {
                dns_rdata_reset(&sigrdata);
                dns_rdata_freestruct(&siginfo);
                return (rdataset);
            } else if (rdataset->type == type)
                return (rdataset);
        }
    return (NULL);
    }
chase_scannamename_section(dns_message_t *msg, dns_name_t *name,
        dns_rdatatype_t type, dns_rdatatype_t covers,
        int section)
{
    dns_rdataset_t *rdataset;
    dns_name_t *msg_name = NULL;

    if (msg->counts[section] == 0)
        return (NULL);

    do {
        dns_message_currentname(msg, section, &msg_name);
        if (dns_name_compare(msg_name, name) == 0) {
            rdataset = search_type(msg_name, type, covers);
            if (rdataset != NULL)
                return (rdataset);
        }
        msg_name = NULL;
    } while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);

    return (NULL);
}

chase_scannamename(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers)
{
    dns_rdataset_t *rdataset = NULL;
    dig_message_t * msg;

    for (msg = ISC_LIST_HEAD(chase_message_list2); msg != NULL;
        msg = ISC_LIST_NEXT(msg, link)) {
        if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER) == ISC_R_SUCCESS)
            rdataset = chase_scannamename_section(msg->msg, name,
                type, covers,
                DNS_SECTION_ANSWER);
            if (rdataset != NULL)
                return (rdataset);
    }

    if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY) == ISC_R_SUCCESS)
        rdataset =
            chase_scannamename_section(msg->msg, name,
                type, covers,
DNS_SECTION_AUTHORITY);
if (rdataset != NULL)
return (rdataset);
}
if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL)
    == ISC_R_SUCCESS)
{
    rdataset =
    chase_scanname_section(msg->msg, name, type,
        covers,
        DNS_SECTION_ADDITIONAL);
    if (rdataset != NULL)
return (rdataset);
}
}
return (NULL);
}

dns_rdataset_t *
sigchase_scanname(dns_rdatatype_t type, dns_rdatatype_t covers,
    bool * lookedup, dns_name_t *rdata_name)
{
    dig_lookup_t *lookup;
isc_buffer_t *b = NULL;
isc_region_t r;
isc_result_t result;
dns_rdataset_t * temp;
dns_rdatatype_t querytype;

temp = chase_scanname(rdata_name, type, covers);
if (temp != NULL)
return (temp);
if (*lookedup == true)
return (NULL);

lookup = clone_lookup(current_lookup, true);
lookup->trace_root = false;
lookup->new_search = true;

result = isc_buffer_allocate(mctx, &b, BUFSIZE);
check_result(result, "isc_buffer_allocate");
result = dns_name_totext(rdata_name, false, b);
check_result(result, "dns_name_totext");
isc_buffer_usedregion(b, &r);
r.base[r.length] = '\0';
strlcpy(lookup->textname, (char*)r.base, sizeof(lookup->textname));
isc_buffer_free(&b);

if (type == dns_rdatatype_rrsig)
querytype = covers;
else
querytype = type;

if (querytype == 0 || querytype == 255) {
printf("Error in the queried type: %d\n", querytype);
return (NULL);
}

lookup->rdtype = querytype;
lookup->rdtypeset = true;
lookup->qrdtype = querytype;
*lookedup = true;

ISC_LIST_APPEND(lookup_list, lookup, link);
printf("\nLaunch a query to find a RRset of type ");
print_type(type);
printf(" for zone: %s\n", lookup->textname);
return (NULL);
}

isc_result_t
insert_trustedkey(void *arg, dns_name_t *name, dns_rdataset_t *rdataset)
{
isc_result_t result;
dst_key_t *dstkey;

UNUSED(arg);

if (rdataset == NULL || rdataset->type != dns_rdatatype_dnskey)
return (ISC_R_SUCCESS);

for (result = dns_rdataset_first(rdataset);
result == ISC_R_SUCCESS;
result = dns_rdataset_next(rdataset)) {

dns_rdata_t rdata = DNS_RDATA_INIT;
isc_buffer_t b;

dns_rdataset_current(rdataset, &rdata);
isc_buffer_init(&b, rdata.data, rdata.length);
isc_buffer_add(&b, rdata.length);
if (tk_list.nb_tk >= MAX_TRUSTED_KEY)
return (ISC_R_SUCCESS);
dstkey = NULL;
result = dst_key_fromdns(name, rdata.rdclass, &b, mctx, &dstkey);
if (result != ISC_R_SUCCESS)
continue;
tk_list.key[tk_list.nb_tk++] = dstkey;
}
return (ISC_R_SUCCESS);

void
clean_trustedkey()
{
int i = 0;

for (i = 0; i < MAX_TRUSTED_KEY; i++) {
if (tk_list.key[i] != NULL) {
dst_key_free(&tk_list.key[i]);
tk_list.key[i] = NULL;
} else
break;
}
tk_list.nb_tk = 0;
return;
}

char alphnum[] =
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

isc_result_t
removetmpkey(const char *file)
{
char *tempnamekey = NULL;
int tempnamekeylen;
isc_result_t result;


tempnamekeylen = strlen(file)+10;

tempnamekey = isc_memAllocate(mctx, tempnamekeylen);
if (tempnamekey == NULL)
return (ISC_R_NOMEMORY);

memset(tempnamekey, 0, tempnamekeylen);

strcat(tempnamekey, file);
strcat(tempnamekey, ".key");
isc_file_remove(tempnamekey);

result = isc_file_remove(tempnamekey);
isc_mem_free(mctx, tempnamekey);
return (result);
isc_result_t
get_trusted_key(void) {
    isc_result_t result;
    const char *filename = NULL;
    dns_rdatacallbacks_t callbacks;

    result = isc_file_exists(trustedkey);
    if (result != true) {
        result = isc_file_exists("/etc/trusted-key.key");
        if (result != true) {
            result = isc_file_exists("./trusted-key.key");
            if (result != true)
                return (ISC_R_FAILURE);
            else
                filename = "./trusted-key.key";
        } else
            filename = "/etc/trusted-key.key";
    } else
        filename = trustedkey;

    if (filename == NULL) {
        printf("No trusted key\n");
        return (ISC_R_FAILURE);
    }

    dns_rdatacallbacks_init_stdio(&callbacks);
    callbacks.add = insert_trustedkey;
    return (dns_master_loadfile(filename, dns_rootname, dns_rootname,
        current_lookup->rdclass, DNS_MASTER_NOTTL,
        &callbacks, mctx));
}

static void
nameFromString(const char *str, dns_name_t *p_ret) {
    size_t len = strlen(str);
    isc_result_t result;
    isc_buffer_t buffer;
    dns_fixedname_t fixedname;

    REQUIRE(p_ret != NULL);
    REQUIRE(str != NULL);

    isc_buffer_constinit(&buffer, str, len);
    isc_buffer_add(&buffer, len);
dns_fixedname_init(&fixedname);
result = dns_name_fromtext(dns_fixedname_name(&fixedname), &buffer,
    dns_rootname, DNS_NAME_DOWNCASE, NULL);
check_result(result, "nameFromString");

if (dns_name_dynamic(p_ret))
    free_name(p_ret);

result = dns_name_dup(dns_fixedname_name(&fixedname), mctx, p_ret);
check_result(result, "nameFromString");
}

#if DIG_SIGCHASE_TD
isc_result_t
prepare_lookup(dns_name_t *name)
{
    isc_result_t result;
    dig_lookup_t *lookup = NULL;
    dig_server_t *s;
    void *ptr;

    lookup = clone_lookup(current_lookup, true);
    lookup->trace_root = false;
    lookup->new_search = true;
    lookup->trace_root_sigchase = false;

    strlcpy(lookup->textname, lookup->textnamesigchase, MXNAME);

    lookup->rdtype = lookup->rdtype_sigchase;
    lookup->rdtypereset = true;
    lookup->qrqdtype = lookup->qrqdtype_sigchase;

    s = ISC_LIST_HEAD(lookup->my_server_list);
    while (s != NULL) {
        debug("freeing server %p belonging to %p", 
            s, lookup);
        ptr = s;
        s = ISC_LIST_NEXT(s, link);
        ISC_LIST_DEQUEUE(lookup->my_server_list, 
            (dig_server_t *)ptr, link);
        isc_mem_free(mctx, ptr);
    }

    for (result = dns_rdataset_first(chase_nsrdataset);
        result == ISC_R_SUCCESS;
        result = dns_rdataset_next(chase_nsrdataset)) {

    }
char namestr[DNS_NAME_FORMATSIZE];
dns_rdata ns t ns;
dns_rdata_t rdata = DNS_RDATA_INIT;
dig_server_t * srv = NULL;
#define __FOLLOW_GLUE__
#endif __FOLLOW_GLUE__
isc_buffer_t *b = NULL;
isc_region_t r;
dns_rdataset_t *rdataset = NULL;
bool t = true;
#endif

memset(namestr, 0, DNS_NAME_FORMATSIZE);

dns_rdataset_current(chase_nsrdataset, &rdata);

result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");

#ifdef __FOLLOW_GLUE__
result = advanced_rrsearch(&rdataset, &ns.name, dns_rdatatype_aaaa, dns_rdatatype_any, &t);
if (result == ISC_R_SUCCESS) {
    for (result = dns_rdataset_first(rdataset);
         result == ISC_R_SUCCESS;
           result = dns_rdataset_next(rdataset)) {
        dns_rdata_t aaaa = DNS_RDATA_INIT;
        dns_rdataset_current(rdataset, &aaaa);
        result = isc_buffer_allocate(mctx, &b, 80);
        check_result(result, "isc_buffer_allocate");
        dns_rdata_totext(&aaaa, &ns.name, b);
        isc_buffer_usedregion(b, &r);
        r.base[r.length] = '\0';
        strlcpy(namestr, (char*)r.base,
        DNS_NAME_FORMATSIZE);
        isc_buffer_free(&b);
        dns_rdata_reset(&aaaa);

        srv = make_server(namestr, namestr);

        ISC_LIST_APPEND(lookup->my_server_list, srv, link);
    }
#endif
rdataset = NULL;
result = advanced_rrsearch(&rdataset, &ns.name, dns_rdatatype_a,
    dns_rdatatype_any, &t);
if (result == ISC_R_SUCCESS) {
    for (result = dns_rdataset_first(rdataset);
        result == ISC_R_SUCCESS;
        result = dns_rdataset_next(rdataset)) {
        dns_rdata_t a = DNS_RDATA_INIT;
        dns_rdataset_current(rdataset, &a);
        result = isc_buffer_allocate(mctx, &b, 80);
        check_result(result, "isc_buffer_allocate");
        dns_rdata_totext(&a, &ns.name, b);
        isc_buffer_usedregion(b, &r);
        r.base[r.length] = '\0';
        strlcpy(namestr, (char*)r.base,
            DNS_NAME_FORMATSIZE);
        isc_buffer_free(&b);
        dns_rdata_reset(&a);
        printf("ns name: %s\n", namestr);
        srv = make_server(namestr, namestr);
        ISC_LIST_APPEND(lookup->my_server_list,
            srv, link);
    }
}
#else
    dns_name_format(&ns.name, namestr, sizeof(namestr));
    printf("ns name: ");
    dns_name_print(&ns.name, stdout);
    printf("\n");
    srv = make_server(namestr, namestr);
    ISC_LIST_APPEND(lookup->my_server_list, srv, link);
#endif
dns_rdata_freestruct(&ns);
dns_rdata_reset(&rdata);

}
printf("Launch a query to find a RRset of type ");
printf(" for zone: ", lookup->textname);
printf(" with nameservers:");
printf("\n");
print_rdataset(name, chase_nsrdataset);
return (ISC_R_SUCCESS);
}

isc_result_t
child_of_zone(dns_name_t * name, dns_name_t * zone_name,
        dns_name_t * child_name)
{
    dns_namereln_t name_reln;
    int orderp;
    unsigned int nlabelsp;
    name_reln = dns_name_fullcompare(name, zone_name, &orderp, &nlabelsp);
    if (name_reln != dns_namereln_subdomain ||
        dns_name_countlabels(name) < dns_name_countlabels(zone_name) + 1) {
        printf("\n; ERROR : ");
dns_name_print(name, stdout);
        printf(" is not a subdomain of: ");
dns_name_print(zone_name, stdout);
        printf(" FAILED\n\n");
        return (ISC_R_FAILURE);
    }

dns_name_getlabelsequence(name,
        dns_name_countlabels(name) -
        dns_name_countlabels(zone_name) -1,
        dns_name_countlabels(zone_name) +1,
        child_name);
return (ISC_R_SUCCESS);
}

isc_result_t
grandfather_pb_test(dns_name_t *zone_name, dns_rdataset_t  *sigrdataset) {
    dns_rdata_sig_t siginfo;
    dns_rdataset_t mysigrdataset;
    isc_result_t result;
    dns_rdataset_init(&mysigrdataset);
    dns_rdataset_clone(sigrdataset, &mysigrdataset);

    result = dns_rdataset_first(&mysigrdataset);
    check_result(result, "empty RRSIG dataset");
do {
dns_rdata_t sigdata = DNS_RDATA_INIT;

dns_rdataset_current(&mysigrdataset, &sigdata);

result = dns_rdata_tostruct(&sigdata, &siginfo, NULL);
check_result(result, "sigdata tostruct siginfo");

if (dns_name_compare(&siginfo.signer, zone_name) == 0) {
result = ISC_R_SUCCESS;
goto cleanup;
}
} while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

result = ISC_R_FAILURE;
cleanup:

dns_rdataset_disassociate(&mysigrdataset);

return (result);
}

isc_result_t initialization(dns_name_t *name)
{
isc_result_t result;
bool t = true;

chase_nsrdataset = NULL;
result = advanced_rrsearch(&chase_nsrdataset, name, dns_rdatatype_ns, dns_rdatatype_any, &t);
if (result != ISC_R_SUCCESS) {
printf(";; NS RRset is missing to continue validation:" " FAILED\n\n");
return (ISC_R_FAILURE);
}
INSIST(chase_nsrdataset != NULL);
prepare_lookup(name);

dup_name(name, &chase_current_name);

return (ISC_R_SUCCESS);
}
#endif

void print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset)
{isc_buffer_t *b = NULL;
isc_result_t result;
isc_region_t r;

result = isc_buffer_allocate(mctx, &b, 9000);
check_result(result, "isc_buffer_allocate");

dighost_printrdataset(name, rdataset, b);

isc_buffer_usedregion(b, &r);
ri.base[r.length] = \0;

printf("%s\n", r.base);

isc_buffer_free(&b);
}

void
dup_name(dns_name_t *source, dns_name_t *target) {
isc_result_t result;

if (dns_name_dynamic(target))
free_name(target);
result = dns_name_dup(source, mctx, target);
check_result(result, "dns_name_dup");
}

void
free_name(dns_name_t *name) {
dns_name_free(name, mctx);
dns_name_init(name, NULL);
}

/*
 *
* take a DNSKEY RRset and the RRSIG RRset corresponding in parameter
* return ISC_R_SUCCESS if the DNSKEY RRset contains a trusted_key
* and the RRset is valid
* return ISC_R_NOTFOUND if not contains trusted key
* or if the RRset isn't valid
* return ISC_R_FAILURE if problem
*
*/
isc_result_t
contains_trusted_key(dns_name_t *name, dns_rdataset_t *rdataset,

dns_rdataset_t *sigrdataset)
{
    dst_key_t *dnsseckey = NULL;
    int i;
    isc_result_t result;

    if (name == NULL || rdataset == NULL)
        return (ISC_R_FAILURE);

    dns_rdataset_init(&myrdataset);
    dns_rdataset_clone(rdataset, &myrdataset);
    result = dns_rdataset_first(&myrdataset);
    check_result(result, "empty rdataset");

    do {
        dns_rdata_t rdata = DNS_RDATA_INIT;

        dns_rdataset_current(&myrdataset, &rdata);
        INSIST(rdata.type == dns_rdatatype_dnskey);
        result = dns_dnssec_keyfromrdata(name, &rdata,
                                         mctx, &dnsseckey);
        check_result(result, "dns_dnssec_keyfromrdata");

        for (i = 0; i < tk_list.nb_tk; i++) {
            if (dst_key_compare(tk_list.key[i], dnsseckey)
                == true) {
                dns_rdata_reset(&rdata);
                printf(";; Ok, find a Trusted Key in the 
                   "DNSKEY RRset: %d
                dst_key_id(dnsseckey));
                result = sigchase_verify_sig_key(name, rdataset,
                                                  dnsseckey,
                                                  sigrdataset);
                if (result == ISC_R_SUCCESS)
                    goto cleanup;
            }
        }
    } while (dns_rdataset_next(&myrdataset) == ISC_R_SUCCESS);
    result = ISC_R_NOTFOUND;

    cleanup:
    if (dnsseckey != NULL)
dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&myrdataset);

return (result);
}

isc_result_t
sigchase_verify_sig(dns_name_t *name, dns_rdataset_t *rdataset,
                     dns_rdataset_t *keyrdataset,
                     dns_rdataset_t *sigrdataset)
{
dns_rdataset_t mykeyrdataset;
dst_key_t *dnsseckey = NULL;
isc_result_t result;

dns_rdataset_init(&mykeyrdataset);
dns_rdataset_clone(keyrdataset, &mykeyrdataset);

result = dns_rdataset_first(&mykeyrdataset);
check_result(result, "empty DNSKEY dataset");

do {
    dns_rdata_t keyrdata = DNS_RDATA_INIT;

dns_rdataset_current(&mykeyrdataset, &keyrdata);
    INSIST(keyrdata.type == dns_rdatatype_dnskey);

    result = dns_dnssec_keyfromrdata(name, &keyrdata, mctx, &dnsseckey);
    check_result(result, "dns_dnssec_keyfromrdata");

    result = sigchase_verify_sig_key(name, rdataset, dnsseckey, sigrdataset);
    if (result == ISC_R_SUCCESS)
        goto cleanup;
    dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
if (dnsseckey != NULL)
    dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&mykeyrdataset);

return (result);
isc_result_t
sigchase_verify_sig_key(dns_name_t *name, dns_rdataset_t *rdataset,
dst_key_t *dnsseckey, dns_rdataset_t *sigrdataset)
{
dns_rdata_sig_t siginfo;
dns_rdataset_t myrdataset;
dns_rdataset_t mysigrdataset;
isc_result_t result;

dns_rdataset_init(&myrdataset);
dns_rdataset_clone(rdataset, &myrdataset);
dns_rdataset_init(&mysigrdataset);
dns_rdataset_clone(sigrdataset, &mysigrdataset);

result = dns_rdataset_first(&mysigrdataset);
check_result(result, "empty RRSIG dataset");

do {
  dns_rdata_t sigdata = DNS_RDATA_INIT;

  dns_rdataset_current(&mysigrdataset, &sigdata);

  result = dns_rdata_tostruct(&sigdata, &siginfo, NULL);
  check_result(result, "sigdata tostruct siginfo");

  /*
   * Test if the id of the DNSKEY is
   * the id of the DNSKEY signer's
   */
  if (siginfo.keyid == dst_key_id(dnsseckey)) {

    result = dns_rdataset_first(&myrdataset);
    check_result(result, "empty DS dataset");

    result = dns_dnssec_verify(name, &myrdataset, dnsseckey,
                              false, mctx, &sigdata);

    printf(";; VERIFYING ");
    print_type(rdataset->type);
    printf(" RRset for ");
    dns_name_print(name, stdout);
    printf(" with DNSKEY:%d: %s
", dst_key_id(dnsseckey),
           isc_result_totext(result));

    if (result == ISC_R_SUCCESS)
      goto cleanup;
  }
} while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);
result = ISC_R_NOTFOUND;

cleanup:
dns_rdataset_disassociate(&myrdataset);
dns_rdataset_disassociate(&mysigrdataset);

return (result);
}

isc_result_t
sigchase_verify_ds(dns_name_t *name, dns_rdataset_t *keyrdataset,
   dns_rdataset_t *dsrdataset)
{
dns_rdata_ds_t dsinfo;
dns_rdataset_t mydsrdataset;
dns_rdataset_t mykeyrdataset;
dst_key_t *dnsseckey = NULL;
isc_result_t result;
unsigned char dsbuf[DNS_DS_BUFFERSIZE];

dns_rdataset_init(&mydsrdataset);
dns_rdataset_clone(dsrdataset, &mydsrdataset);
dns_rdataset_init(&mykeyrdataset);
dns_rdataset_clone(keyrdataset, &mykeyrdataset);

result = dns_rdataset_first(&mydsrdataset);
check_result(result, "empty DSset dataset");
do {
    dns_rdata_t dsrdata = DNS_RDATA_INIT;
    dns_rdataset_current(&mydsrdataset, &dsrdata);

    result = dns_rdata_tostruct(&dsrdata, &dsinfo, NULL);
    check_result(result, "dns_rdata_tostruct for DS");

    result = dns_rdataset_first(&mykeyrdataset);
    check_result(result, "empty KEY dataset");

do {
    dns_rdata_t keyrdata = DNS_RDATA_INIT;
    dns_rdataset_current(&mykeyrdataset, &keyrdata);
    INSIST(keyrdata.type == dns_rdatatype_dnskey);

    result = dns_dnssec_keyfromrdata(name, &keyrdata, mctx, &dnsseckey);
check_result(result, "dns_dnssec_keyfromrdata");

/*
 * Test if the id of the DNSKEY is the
 * id of DNSKEY referenced by the DS
 */
if (dsinfo.key_tag == dst_key_id(dnsseckey)) {

dns_rdata_t newdsrdata = DNS_RDATA_INIT;

result = dns_ds_buildrdata(name, &keyrdata,
    dsinfo.digest_type,
    dsbuf, &newdsrdata);

dns_rdata_freestruct(&dsinfo);

if (result != ISC_R_SUCCESS) {
    printf("Oops: impossible to build"
        " new DS rdata\n");
    goto cleanup;
}

if (dns_rdata_compare(&dsrdata,
    &newdsrdata) == 0) {
    printf(";; OK a DS valids a DNSKEY"
        " in the RRset\n");
    printf(";; Now verify that this"
        " DNSKEY validates the"
        "DNSKEY RRset\n");

    result = sigchase_verify_sig_key(name,
        keyrdataset,
        dnsseckey,
        chase_sigkeyrdataset);
    if (result == ISC_R_SUCCESS)
        goto cleanup;
} else {
    printf(";; This DS is NOT the DS for"
        " the chasing KEY: FAILED\n");
}
}
dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);
} while (dns_rdataset_next(&mydsrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
if (dnsseckey != NULL)
dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&mydsrdataset);
dns_rdataset_disassociate(&mykeyrdataset);

return (result);
}

/*
 * take a pointer on a rdataset in parameter and try to resolv it.
 * the searched rrset is a rrset on 'name' with type 'type'
 * (and if the type is a rrsig the signature cover 'covers').
 * the lookedup is to known if you have already done the query on the net.
 * ISC_R_SUCCESS: if we found the rrset
 * ISC_R_NOTFOUND: we do not found the rrset in cache
 * and we do a query on the net
 * ISC_R_FAILURE: rrset not found
 */
isc_result_t
advanced_rrsearch(dns_rdataset_t **rdataset, dns_name_t *name,
dns_rdatatype_t type, dns_rdatatype_t covers,
bool *lookedup)
{
    bool tmplookedup;
    INSIST(rdataset != NULL);

    if (*rdataset != NULL)
        return (ISC_R_SUCCESS);

    tmplookedup = *lookedup;
    if ((*rdataset = sigchase_scanname(type, covers,
                                          lookedup, name)) == NULL) {
        if (tmplookedup)
            return (ISC_R_FAILURE);
        return (ISC_R_NOTFOUND);
    }
    *lookedup = false;
    return (ISC_R_SUCCESS);
}

#if DIG_SIGCHASE_TD
void
sigchase_td(dns_message_t *msg)
{
    isc_result_t result;
dns_name_t *name = NULL;
bool have_answer = false;
bool t = true;

if (msg->rcode != dns_rcode_noerror &&
    msg->rcode != dns_rcode_nxdomain) {
    char buf[20];
    isc_buffer_t b;

    isc_buffer_init(&b, buf, sizeof(buf));
    result = dns_rcode_totext(msg->rcode, &b);
    check_result(result, "dns_rcode_totext failed");
    printf("error response code %.*s\n",
            (int)isc_buffer_usedlength(&b), buf);
    error_message = msg;
    return;
}

if ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER))
    == ISC_R_SUCCESS) {
    dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
    if (current_lookup->trace_root_sigchase) {
        initialization(name);
        return;
    }
    have_answer = true;
} else {
    if (!current_lookup->trace_root_sigchase) {
        result = dns_message_firstname(msg,
            DNS_SECTION_AUTHORITY);
        if (result != ISC_R_SUCCESS) {
            printf("no answer or authority section\n");
            error_message = msg;
            return;
        }
        dns_message_currentname(msg, DNS_SECTION_AUTHORITY,
            &name);
        chase_nsrdataset
            = chase_scannname_section(msg, name,
                dns_rdatatype_ns,
                dns_rdatatype_any,
                DNS_SECTION_AUTHORITY);
        dup_name(name, &chase_authority_name);
        if (chase_nsrdataset != NULL) {
            have_delegation_ns = true;
            printf("no response but there is a delegation"
                " in authority section: ");
            dns_name_print(name, stdout);
        }
    }

    dns_message_currentname(msg, DNS_SECTION_AUTHORITY,
        &name);
    chase_nsrdataset
        = chase_scannname_section(msg, name,
            dns_rdatatype_ns,
            dns_rdatatype_any,
            DNS_SECTION_AUTHORITY);
    dup_name(name, &chase_authority_name);
    if (chase_nsrdataset != NULL) {
        have_delegation_ns = true;
        printf("no response but there is a delegation"
            " in authority section: ");
        dns_name_print(name, stdout);
printf("\n");
} else {
printf("no response and no delegation in ",
    "authority section but a reference ",
    " to: ");
dns_name_print(name, stdout);
printf("\n");
error_message = msg;
}
#else {
printf(";; NO ANSWERS: %s\n",
    isc_result_totext(result));
free_name(&chase_name);
clean_trustedkey();
return;
}

if (have_answer) {
    chase_rdataset
    = chase_scannamename_section(msg, &chase_name,
        current_lookup
            ->rdtype_sigchase,
        DNS_SECTION_ANSWER);
    if (chase_rdataset != NULL)
        have_response = true;
}

result = advanced_rrsearch(&chase_keyrdataset,
    &chase_current_name,
    dns_rdatatype_dnskey,
    dns_rdatatype_any,
    &chase_keylookedup);
if (result == ISC_R_FAILURE) {
    printf("\n;; DNSKEY is missing to continue validation:",
        " FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_keyrdataset != NULL);
printf("\n;; DNSKEYset:\n");
print_rdataset(&chase_current_name , chase_keyrdataset);

result = advanced_rrsearch(&chase_sigkeyrdataset,
&chase_current_name,
dns_rdatatype_rrsig,
dns_rdatatype_dnskey,
&chase_sigkeylookedup);
if (result == ISC_R_FAILURE) {
  printf(";; RRSIG of DNSKEY is missing to continue validation:"
         " FAILED\n\n");
goto cleanandgo;
} if (result == ISC_R_NOTFOUND)
  return;
INSIST(chase_sigkeyrdataset != NULL);
printf(";; RRSIG of the DNSKEYset:\n");
print_rdataset(&chase_current_name, chase_sigkeyrdataset);

if (!chase_dslookedup && !chase_nslookedup) {
  if (!delegation_follow) {
    result = contains_trusted_key(&chase_current_name,
                                  chase_keyrdataset,
                                  chase_sigkeyrdataset);
  } else {
    INSIST(chase_dsrdataset != NULL);
    INSIST(chase_sigdsrdataset != NULL);
    result = sigchase_verify_ds(&chase_current_name,
                                chase_keyrdataset,
                                chase_dsrdataset);
  }

  if (result != ISC_R_SUCCESS) {
    printf(";; chain of trust can't be validated:"n"
           " FAILED\n\n");
goto cleanandgo;
  } else {
    chase_dsrdataset = NULL;
    chase_sigdsrdataset = NULL;
  }
}

if (have_response || (!have_delegation_ns && !have_response)) {
  /* test if it's a grand father case */

  if (have_response) {
    result = advanced_rrsearch(&chase_sigrdataset,
                                &chase_name,
                                dns_rdatatype_rrsig,
                                current_lookup
                   ->rdtype_sigchase,


if (result == ISC_R_FAILURE) {
    printf(";; RRset is missing to continue
    " validation SHOULD NOT APPEND:"
    " FAILED\n\n");
    goto cleanandgo;
}
}
}
result = advanced_rrsearch(&chase_sigrdataset,
                      &chase_authority_name,
                      dns_rdatatype_rrsig,
                      dns_rdatatype_any,
                      &t);
if (result == ISC_R_FAILURE) {
    printf(";; RRSIG is missing to continue
    " validation SHOULD NOT APPEND:"
    " FAILED\n\n");
    goto cleanandgo;
}
}
result = grandfather_pb_test(&chase_current_name,
                          chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
    dns_name_t tmp_name;

    printf(";; We are in a Grand Father Problem:
    " See 2.2.1 in RFC 3658\n\n");
    chase_rdataset = NULL;
    chase_sigrdataset = NULL;
    have_response = false;
    have_delegation_ns = false;

    dns_name_init(&tmp_name, NULL);
    result = child_of_zone(&chase_name, &chase_current_name,
                          &tmp_name);
    if (result != ISC_R_SUCCESS)
        goto cleanandgo;
    if (dns_name_dynamic(&chase_authority_name))
        free_name(&chase_authority_name);
    dup_name(&tmp_name, &chase_authority_name);
    printf(";; and we try to continue chain of trust
    " validation of the zone: ");
    dns_name_print(&chase_authority_name, stdout);
    printf("\n");
    have_delegation_ns = true;
} else {
    if (have_response)
goto finalstep;
else
chase_sigrdataset = NULL;
}
}

if (have_delegation_ns) {
chase_nsrdataset = NULL;
result = advanced_rrsearch(&chase_nsrdataset,
    &chase_authority_name,
    dns_rdatatype_ns,
    dns_rdatatype_any,
    &chase_nlookup);
if (result == ISC_R_FAILURE) {
    printf(";;NSset is missing to continue validation:
          FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND) {
    return;
}
INSIST(chase_nsrdataset != NULL);

result = advanced_rrsearch(&chase_dsrdataset,
    &chase_authority_name,
    dns_rdatatype_ds,
    dns_rdatatype_any,
    &chase_dlookup);
if (result == ISC_R_FAILURE) {
    printf(";;DSset is missing to continue validation:
           FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_dsrdataset != NULL);

result = advanced_rrsearch(&chase_sigsrdataset,
    &chase_authority_name,
    dns_rdatatype_rsig,
    dns_rdatatype_ds,
    &t);
if (result != ISC_R_SUCCESS) {
    printf(";;DSset is missing to continue validation:
           FAILED\n\n");
goto cleanandgo;
}
printf("
;; RRSIGset of DSset
");
print_rdataset(&chase_authority_name, chase_sigdsrdataset);
INSIST(chase_sigdsrdataset != NULL);

result = sigchase_verify_sig(&chase_authority_name,
    chase_dsrdataset,
    chase_keyrdataset,
    chase_sigdsrdataset);
if (result != ISC_R_SUCCESS) {
    printf("\n;; Impossible to verify the DSset:
" " FAILED\n\n");
    goto cleanandgo;
}
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;

prepare_lookup(&chase_authority_name);

have_response = false;
have_delegation_ns = false;
delegation_follow = true;
error_message = NULL;
dup_name(&chase_authority_name, &chase_current_name);
free_name(&chase_authority_name);
return;
}

if (error_message != NULL) {
    dns_rdataset_t *rdataset;
    dns_rdataset_t *sigrdataset;
    dns_name_t rdata_name;
    isc_result_t ret = ISC_R_FAILURE;
    dns_name_init(&rdata_name, NULL);
    result = prove_nx(error_message, &chase_name,
        current_lookup->rdclass_sigchase,
        current_lookup->rdtype_sigchase, &rdata_name,
        &rdataset, &sigrdataset);
    if (rdataset == NULL || sigrdataset == NULL ||
        dns_name_countlabels(&rdata_name) == 0) {
        printf("\n;; Impossible to verify the non-existence," " the NSEC RRset can't be validated:" " FAILED\n\n");
        goto cleanandgo;
    }
ret = sigchase_verify_sig(&rdata_name, rdataset, chase_keyrdataset, sigrdataset);
    if (ret != ISC_R_SUCCESS) {
        free_name(&rdata_name);
        printf("\n;; Impossible to verify the NSEC RR to prove" " the non-existence : FAILED\n\n");
goto cleanandgo;
    }
    free_name(&rdata_name);
    if (result != ISC_R_SUCCESS) {
        printf("\n;; Impossible to verify the non-existence:" " FAILED\n\n");
goto cleanandgo;
    } else {
        printf("\n;; OK the query doesn't have response but" " we have validate this fact : SUCCESS\n\n");
goto cleanandgo;
    }
}

finalstep :
result = advanced_rrsearch(&chase_rdataset, &chase_name, current_lookup->rdtype_sigchase, dns_rdatatype_any,
    &t);
if (result == ISC_R_FAILURE) {
    printf("\n;; RRsig of RRset is missing to continue validation" " SHOULD NOT APPEND: FAILED\n\n");
goto cleanandgo;
}
result = sigchase_verify_sig(&chase_name, chase_rdataset, chase_keyrdataset, chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
    printf("\n;; Impossible to verify the RRset : FAILED\n\n"); /*
        printf("RRset:\n");
        print_rdataset(&chase_name , chase_rdataset);
    */
printf("DNSKEYset:\n");
print_rdataset(&chase_name , chase_keyrdataset);
printf("RRSIG of RRset:\n");
print_rdataset(&chase_name , chase_sigrdataset);
printf("\n");
*/
goto cleanandgo;
} else {
printf("\n; The Answer:\n");
print_rdataset(&chase_name , chase_rdataset);
printf("\n; FINISH : we have validate the DNSSEC chain" 
    " of trust: SUCCESS\n\n");
goto cleanandgo;
}
}
#endif

#endif DIG_SIGCHASE_BU

isc_result_t
getneededrr(dns_message_t *msg)
{
  isc_result_t result;
  dns_name_t *name = NULL;
  dns_rdata_t sigrdata = DNS_RDATA_INIT;
  dns_rdata_sig_t siginfo;
  bool t = true;

  if ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER))
      != ISC_R_SUCCESS) {
    printf(";; NO ANSWERS: %s\n", isc_result_totext(result));
    return (ISC_R_ADDRNOTAVAIL);
  } else {
    dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
  }

  /* What do we chase? */
  if (chase_rdataset == NULL) {
    result = advanced_rrsearch(&chase_rdataset, name,
        dns_rdatatype_any,
        dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
      printf("\n; No Answers: Validation FAILED\n\n");
      return (ISC_R_FAILED);
    }

    /* Chase keyset */
    result = advanced_rrsearch(&chase_keyrdataset, name,
        dns_rdatatype_any,
        dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
      printf("\n; No Answers: Validation FAILED\n\n");
      return (ISC_R_FAILED);
    }

    /* Chase sigset */
    result = advanced_rrsearch(&chase_sigrdataset, name,
        dns_rdatatype_any,
        dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
      printf("\n; No Answers: Validation FAILED\n\n");
      return (ISC_R_FAILED);
    }

    /* Chase answer */
    result = advanced_rrsearch(&chase_rdataset, name,
        dns_rdatatype_answer,
        dns_rdatatype_answer, &t);
    if (result != ISC_R_SUCCESS) {
      printf("\n; No Answers: Validation FAILED\n\n");
      return (ISC_R_FAILED);
    }

    /* Ensure we have at least one answer */
    if (t == false) {
      printf("\n; No Answers: Validation FAILED\n\n");
      return (ISC_R_FAILED);
    }

    printf("\n; FINISH : we have validate the DNSSEC chain" 
        " of trust: SUCCESS\n\n");
  }

  return (ISC_R_SUCCESS);
}
return (ISC_R_NOTFOUND);
}
dup_name(name, &chase_name);
printf(";; RRset to chase:\n");
print_rdataset(&chase_name, chase_rdataset);
}
INSIST(chase_rdataset != NULL);

if (chase_rsigdataset == NULL) {
result = advanced_rrsearch(&chase_rsigdataset, name,
    dns_rdatatype_rssig,
    chase_rdataset->type,
    &chase_siglookedup);
if (result == ISC_R_FAILURE) {
    printf("\n;; RRSIG is missing for continue validation:
" " FAILED\n"\n");
if (dns_name_dynamic(&chase_name))
    free_name(&chase_name);
return (ISC_R_NOTFOUND);
}
if (result == ISC_R_NOTFOUND) {
return (ISC_R_NOTFOUND);
}
printf("\n;; RRSIG of the RRset to chase:\n");
print_rdataset(&chase_name, chase_rsigdataset);
}
INSIST(chase_rsigdataset != NULL);

/* first find the DNSKEY name */
result = dns_rdataset_first(chase_rsigdataset);
check_result(result, "empty RRSIG dataset");
dns_rdataset_current(chase_rsigdataset, &sigrdata);
result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
check_result(result, "sigrdata tostruct siginfo");
dup_name(&siginfo.signer, &chase_signame);
dns_rdata_freestruct(&siginfo);
dns_rdata_reset(&sigrdata);

/* Do we have a key? */
if (chase_keyrdataset == NULL) {
result = advanced_rrsearch(&chase_keyrdataset,
    &chase_signame,
    dns_rdatatype_dnskey,
    dns_rdatatype_any,
    &chase_keylookedup);
if (result == ISC_R_FAILURE) {
printf("\n; DNSKEY is missing to continue validation:");
        " FAILED\n\n");
free_name(&chase_sighname);
if (dns_name_dynamic(&chase_name))
    free_name(&chase_name);
return (ISC_R_NOTFOUND);
}
if (result == ISC_R_NOTFOUND) {
    free_name(&chase_sighname);
    return (ISC_R_NOTFOUND);
}
printf("\n; DNSKEYset that signs the RRset to chase:\n");
print_rdataset(&chase_sighname, chase_keyrdataset);
}
INSIST(chase_keyrdataset != NULL);

if (chase_sighkeyrdataset == NULL) {
    result = advanced_rrsearch(&chase_sighkeyrdataset,
                        &chase_sighname,
                        dns_rdatatype_rrsig,
                        dns_rdatatype_dnskey,
                        &chase_sighkeylookedup);
    if (result == ISC_R_FAILURE) {
        printf("\n; RRSIG for DNSKEY is missing to continue validation : FAILED\n\n");
        free_name(&chase_sighname);
        if (dns_name_dynamic(&chase_name))
            free_name(&chase_name);
        return (ISC_R_NOTFOUND);
    }
    if (result == ISC_R_NOTFOUND) {
        free_name(&chase_sighname);
        return (ISC_R_NOTFOUND);
    }
    printf("\n; RRSIG of the DNSKEYset that signs the "
            "RRset to chase:\n");
    print_rdataset(&chase_sighname, chase_sighkeyrdataset);
}
INSIST(chase_sighkeyrdataset != NULL);

if (chase_dsrdataset == NULL) {
    result = advanced_rrsearch(&chase_dsrdataset, &chase_sighname,
                        dns_rdatatype_ds, dns_rdatatype_any,
                        &chase_dslookedup);
    if (result == ISC_R_FAILURE) {
        printf("\n; WARNING There is no DS for the zone: ");
        dns_name_print(&chase_sighname, stdout);
printf("\n");
}
if (result == ISC_R_NOTFOUND) {
free_name(&chase_signame);
return (ISC_R_NOTFOUND);
}
if (chase_dsrdataset != NULL) {
printf("\n;; DSset of the DNSKEYset\n");
print_rdataset(&chase_signame, chase_dsrdataset);
}

if (chase_dsrdataset != NULL) {
/*
 * if there is no RRSIG of DS,
 * we don't want to search on the network
 */
result = advanced_rrsearch(&chase_sigdsrdataset,
 &chase_signame,
 dns_rdatatype_rrsig,
 dns_rdatatype_ds, &t);
if (result == ISC_R_FAILURE) {
printf(";; WARNING : NO RRSIG DS : RRSIG DS"\n" should come with DS\n");
/*
 * We continue even the DS couldn't be validated,
 * because the DNSKEY could be a Trusted Key.
 */
chase_dsrdataset = NULL;
} else {
printf("\n;; RRSIG of the DSset of the DNSKEYset\n");
print_rdataset(&chase_signame, chase_sigdsrdataset);
}
}
return (1);

void
sigchase_bu(dns_message_t *msg)
{
isc_result_t result;
int ret;

if (tk_list.nb(tk) == 0) {
result = get_trusted_key();
if (result != ISC_R_SUCCESS) {
printf("No trusted keys present\n");
return;
}
}

ret = getneededrr(msg);
if (ret == ISC_R_NOTFOUND)
return;

if (ret == ISC_R_ADDRNOTAVAIL) {
/* We have no response */
dns_rdataset_t *rdataset;
dns_rdataset_t *sigrdataset;
dns_name_t rdata_name;
dns_name_t query_name;

dns_name_init(&query_name, NULL);
dns_name_init(&rdata_name, NULL);
nameFromString(current_lookup->textname, &query_name);

result = prove_nx(msg, &query_name, current_lookup->rdclass,
current_lookup->rdtype, &rdata_name,
&dataset, &sigdataset);
free_name(&query_name);
if (rdataset == NULL || sigdataset == NULL ||
   dns_name_countlabels(&rdata_name) == 0) {
printf(";; Impossible to verify the Non-existence,"
   " the NSEC RRset can't be validated: 
   "FAILED\n\n");
clean_trustedkey();
return;
}

if (result != ISC_R_SUCCESS) {
printf("\n\nNo Answers and impossible to prove the" 
   " unsecurity : Validation FAILED\n\n");
clean_trustedkey();
return;
}
printf(";; An NSEC prove the non-existence of a answers," 
   " Now we want validate this NSEC\n");

dup_name(&rdata_name, &chase_name);
free_name(&rdata_name);
chase_rdataset = rdataset;
chase_sigrdataset = sigdataset;
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigsdsrdataset = NULL;
chase_siglookedup = false;
chase_keylookedup = false;
chase_dslookedup = false;
chase_sigsdslookedup = false;
sigchase(msg);
clean_trustedkey();
return;
}

printf("\n\n\n;; WE HAVE MATERIAL, WE NOW DO VALIDATION\n");

result = sigchase_verify_sig(&chase_name, chase_rdataset,
   chase_keyrdataset,
   chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
   free_name(&chase_name);
   free_name(&chase_sigrname);
   printf(";; No DNSKEY is valid to check the RRSIG"
      " of the RRset: FAILED\n");
clean_trustedkey();
return;
}

result = contains_trusted_key(&chase_sigrname, chase_keyrdataset,
   chase_sigrkeyrdataset);
if (result == ISC_R_SUCCESS) {
   free_name(&chase_name);
   free_name(&chase_sigrname);
   printf("\n;; Ok this DNSKEY is a Trusted Key,"
      " DNSSEC validation is ok: SUCCESS\n");
clean_trustedkey();
return;
}

printf(";; Now, we are going to validate this DNSKEY by the DS\n");

if (chase_dsrdataset == NULL) {
   free_name(&chase_name);
   free_name(&chase_sigrname);
   printf(";; the DNSKEY isn't trusted-key and there isn't"
      " DS to validate the DNSKEY: FAILED\n");
clean_trustedkey();
}
return;
}

result = sigchase_verify_ds(&chase_signame, chase_keyrdataset,
    chase_dsrdataset);
if (result != ISC_R_SUCCESS) {
    free_name(&chase_signame);
    free_name(&chase_name);
    printf(":: ERROR no DS validates a DNSKEY in the"
        " DNSKEY RRset: FAILED\n");
clean_trustedkey();
    return;
} else
    printf(":: OK this DNSKEY (validated by the DS) validates"
        " the RRset of the DNSKEYs, thus the DNSKEY validates"
        " the RRset\n");
INSIST(chase_sigdsrdataset != NULL);

dup_name(&chase_signame, &chase_name);
free_name(&chase_signame);
chase_rdataset = chase_dsrdataset;
chase_keyrdataset = chase_sigdsrdataset;
chase_dsrdataset = NULL;
chase_sigkeyrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigdsrdataset = NULL;
chase_siglookedup = chase_keylookedup = false;
chase_dslookedup = chase_sigdslookedup = false;

printf(":: Now, we want to validate the DS : recursive call\n");
sigchase(msg);
    return;
} #endif

void
sigchase(dns_message_t *msg) {
    #if DIG_SIGCHASE_TD
    if (current_lookup->do_topdown) {
        sigchase_td(msg);
        return;
    }
    #endif
    #if DIG_SIGCHASE_BU
    sigchase_bu(msg);
    return;
    #endif
    }
/*
* return 1 if name1 < name2
* 0 if name1 == name2
* -1 if name1 > name2
* and -2 if problem
*/

int inf_name(dns_name_t *name1, dns_name_t *name2)
{
    dns_label_t label1;
    dns_label_t label2;
    unsigned int nblabel1;
    unsigned int nblabel2;
    int min_lum_label;
    int i;
    int ret = -2;

    nblabel1 = dns_name_countlabels(name1);
    nblabel2 = dns_name_countlabels(name2);

    if (nblabel1 >= nblabel2)
        min_lum_label = nblabel2;
    else
        min_lum_label = nblabel1;

    for (i=1 ; i < min_lum_label; i++) {
        dns_name_getlabel(name1, nblabel1 -1 - i, &label1);
        dns_name_getlabel(name2, nblabel2 -1 - i, &label2);
        if ((ret = isc_region_compare(&label1, &label2)) != 0) {
            if (ret < 0)
                return (-1);
            else if (ret > 0)
                return (1);
        }
    }

    if (nblabel1 == nblabel2)
        return (0);

    if (nblabel1 < nblabel2)
        return (-1);
    else
        return (1);
}

/**
isc_result_t
prove_nx_domain(dns_message_t *msg,
    dns_name_t *name,
    dns_name_t *rdata_name,
    dns_rdataset_t **rdataset,
    dns_rdataset_t **sigrdataset)
{
    isc_result_t ret = ISC_R_FAILURE;
    isc_result_t result = ISC_R_NOTFOUND;
    dns_rdataset_t *nsecset = NULL;
    dns_rdataset_t *signsecset = NULL;
    dns_rdata_t nsec = DNS_RDATA_INIT;
    dns_name_t *nsecname;
    dns_rdata_nsec_t nsecstruct;

    if ((result = dns_message_firstname(msg, DNS_SECTION_AUTHORITY))
        != ISC_R_SUCCESS) {
        printf(";; nothing in authority section : impossible to"
               " validate the non-existence : FAILED\n");
        return (ISC_R_FAILURE);
    }

    do {
        nsecname = NULL;
        dns_message_currentname(msg, DNS_SECTION_AUTHORITY, &nsecname);
        nsecset = search_type(nsecname, dns_rdatatype_nsec,
                             dns_rdatatype_any);
        if (nsecset == NULL)
            continue;

        printf("There is a NSEC for this zone in the"
               " AUTHORITY section:\n");
        print_rdataset(nsecname, nsecset);

        for (result = dns_rdataset_first(nsecset);
             result == ISC_R_SUCCESS;
             result = dns_rdataset_next(nsecset)) {
            dns_rdataset_current(nsecset, &nsec);

            signsecset
                = chase_scanname_section(msg, nsecname,
                                          dns_rdatatype_rrsig,
                                          dns_rdatatype_nsec,
                                          DNS_SECTION_AUTHORITY);
if (signsecset == NULL) {
    printf(";; no RRSIG NSEC in authority section:
        "
    "impossible to validate the "
    "non-existence: FAILED\n");
    return (ISC_R_FAILURE);
}

ret = dns_rdata_tostruct(&nsec, &nsecstruct, NULL);
check_result(ret,"dns_rdata_tostruct")

if ((inf_name(nsecname, &nsecstruct.next) == 1 &&
    inf_name(name, &nsecstruct.next) == 1) ||
    (inf_name(name, nsecname) == 1 &&
    inf_name(&nsecstruct.next, name) == 1)) {
    dns_rdata_freestruct(&nsecstruct);
    *rdataset = nsecset;
    *sigrdataset = signsecset;
    dup_name(nsecname, rdata_name);

    return (ISC_R_SUCCESS);
}

dns_rdata_freestruct(&nsecstruct);
dns_rdata_reset(&nsec);
}
} while (dns_message_nextname(msg, DNS_SECTION_AUTHORITY)
    == ISC_R_SUCCESS);

*rdataset = NULL;
*sigrdataset = NULL;
rdata_name = NULL;
return (ISC_R_FAILURE);
}

/**
 *
 */
isc_result_t
prove_nx_type(dns_message_t *msg, dns_name_t *name, dns_rdataset_t *nsecset,
    dns_rdataclass_t rdclass, dns_rdatatype_t type,
    dns_name_t *rdata_name, dns_rdataset_t **rdataset,
    dns_rdataset_t **sigrdataset)
{
    isc_result_t ret;
dns_rdataset_t *signsecset;
dns_rdata_t nsec = DNS_RDATA_INIT;

UNUSED(rdclass);

ret = dns_rdataset_first(nsecset);
check_result(ret,"dns_rdataset_first");

dns_rdataset_current(nsecset, &nsec);

ret = dns_nsec_typepresent(&nsec, type);
if (ret == ISC_R_SUCCESS)
    printf("OK the NSEC said that the type doesn't exist \n");

signsecset = chase_scanname_section(msg, name,
    dns_rdatatype_rsig,
    dns_rdatatype_nsec,
    DNS_SECTION_AUTHORITY);
if (signsecset == NULL) {
    printf("There isn't RRSIG NSEC for the zone \n");
    return (ISC_R_FAILURE);
}
dup_name(name, rdata_name);
*rdataset = nsecset;
*sigrdataset = signsecset;

return (ret);
}

/**
 *
 *
 */
isc_result_t
prove_nx(dns_message_t *msg, dns_name_t *name, dns_rdataclass_t rdclass,
    dns_rdatatype_t type, dns_name_t *rdata_name,
    dns_rdataset_t **rdataset, dns_rdataset_t **sigrdataset)
{
    isc_result_t ret;
    dns_rdataset_t *nsecset = NULL;

    printf("We want to prove the non-existence of a type of rdata %d"
        " or of the zone: \n", type);

    if ((ret = dns_message_firstname(msg, DNS_SECTION_AUTHORITY))
        != ISC_R_SUCCESS) {
printf(";; nothing in authority section : impossible to validate the non-existence: FAILED\n");
return (ISC_R_FAILURE);
}

nsecset = chase_scanname_section(msg, name, dns_rdatatype_nsec,
dns_rdatatype_any,
DNS_SECTION_AUTHORITY);
if (nsecset != NULL) {
printf("We have a NSEC for this zone: OK\n");
ret = prove_nx_type(msg, name, nsecset,
type, rdata_name, rdataset,
sigrdataset);
if (ret != ISC_R_SUCCESS) {
printf("prove_nx: ERROR type exist\n");
return (ret);
} else {
printf("prove_nx: OK type does not exist\n");
return (ISC_R_SUCCESS);
}
} else {
printf("there is no NSEC for this zone: validating 
that the zone doesn't exist\n");
ret = prove_nx_domain(msg, name, rdata_name,
rdataset, sigrdataset);
return (ret);
} /* Never get here */

#endif

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If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't
intentionally leaving anyone out.

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Version 2.1, February 1999

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1.16 boto3 1.10.84

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```python
{
    "ResponseMetadata": {
        "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
    }
}
```

Boto3 includes a vendorized copy of the requests python library to ease installation.

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  <ResponseMetadata>
    <RequestId>6a213e4e-33a8-11df-9540-99d0768312d3</RequestId>
  </ResponseMetadata>
  </AddPermissionResponse>

<AddPermissionResponse xmlns="http://queue.amazonaws.com/doc/2012-11-05/">
  <ResponseMetadata>
    <RequestId>9a285199-c8d6-47c2-bdb2-314cb47d599d</RequestId>
  </ResponseMetadata>
  </AddPermissionResponse>

{
  "ResponseMetadata": {
    "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
  }
}

{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}

1.17 bridge-utils 1.6

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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.23 certifi 2018.1.18

1.23.1 Available under license:
This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
Metadata-Version: 1.1
Name: certifi
Version: 2018.1.18
Summary: Python package for providing Mozilla's CA Bundle.
Home-page: http://certifi.io/
Author: Kenneth Reitz
Author-email: me@kennethreitz.com
'Certifi' is a carefully curated collection of Root Certificates for validating the trustworthiness of SSL certificates while verifying the identity of TLS hosts. It has been extracted from the 'Requests' project.

Installation
------------
``certifi`` is available on PyPI. Simply install it with `pip`:

    $ pip install certifi

Usage
-----
To reference the installed certificate authority (CA) bundle, you can use the built-in function:

    >>> import certifi
    >>> certifi.where()
    '/usr/local/lib/python2.7/site-packages/certifi/cacert.pem'

Enjoy!

1024-bit Root Certificates
~~~~~~~~~~~~~~~~~~~~~~~~~~
Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, `certifi` removed them as well.

In previous versions, `certifi` provided the `certifi.old_where()` function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old code, the function `certifi.old_where()` continues to exist as an alias of `certifi.where()`. Please update your code to use `certifi.where()` instead. `certifi.old_where()` will be removed in 2018.

.. _Requests: http://docs.python-requests.org/en/latest/
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: Mozilla Public License 2.0 (MPL 2.0)
Classifier: Natural Language :: English
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
This package contains a modified version of ca-bundle.crt:

text:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.24 cgreen 1.0.0
:2c146fa3b5e33ecd5f4e513360f576f02323405
b
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Colm Dougan <colm.dougan@gmail.com> on Sun, 08 May 2011 22:52:32 +0100
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1.25 cgroup-lite 1.11 :ubuntu14.04.2

1.25.1 Available under license:
Format: http://dep.debian.net/deps/dep5

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1.26 chardet 3.0.4

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<!-- $Id$ -->

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

<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

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

  <xsl:variable name="isc.copyright.text">
    This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:variable>
</xsl:stylesheet>
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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 3a0982da308228d796df35f98d787c5c7f22bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

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

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1.33 diffutils 3.6

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1.34 django 1.11.15

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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.

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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-----------------------------------------------
New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

    If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps
===========

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

    The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

    If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct
component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at `how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. Run the tests and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on `writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `writing-documentation`.

.. note::

   The `reports page` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. reports page: https://code.djangoproject.com/wiki/Reports

   .. CLA: https://www.djangoproject.com/foundation/cla/
   .. Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
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Guidelines

==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or
that you want to learn about**

You don’t already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn’t* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

**Start small**

It's easier to get feedback on a little issue than on a big one. See the 'easy pickings'.

**If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

**Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

**Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.
* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

====

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

   Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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# NOTE: Building the i18n targets requires GNU-make

# Variables you may well want to override.

PREFIX    = /usr/local
BINDIR    = $(PREFIX)/sbin
MANDIR    = $(PREFIX)/share/man
LOCALEDIR = $(PREFIX)/share/locale
BUILDDIR  = $(SRC)
DESTDIR   =
CFLAGS    = -Wall -W -O2
LDFLAGS   =
COPTS     =
RPM_OPT_FLAGS =
LIBS      =

#################################################################

# Variables you might want to override.

PKG_CONFIG = pkg-config
INSTALL    = install
MSGMERGE   = msgmerge
MSGFMT     = msgfmt
XGETTEXT   = xgettext

SRC = src
# pmake way. (NB no spaces to keep gmake 3.82 happy)
# GNU make way.

dbus_cflags = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --cflags dbus-1`
dbus_libs = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --libs dbus-1`
idn_cflags = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --cflags libidn`
idn_libs = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --libs libidn`
idn2_cflags = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --cflags libidn2`
idn2_libs = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --libs libidn2`
ct_cflags = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --cflags
libnetfilter_conntrack`
tct_libs = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --libs
libnetfilter_conntrack`
lua_cflags = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --cflags lua5.2`
lua_libs = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --libs lua5.2`
nettle_cflags = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --cflags nettle
hogweed`
nettle_libs = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --libs nettle
hogweed`
gmp_libs = `echo $(COORDS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC NO_GMP --copy -lgmp`
sunos_libs = `if uname | grep SunOS >/dev/null 2>&1; then echo -lsocket -lnsl -lposix4; fi`
version = -DVERSION='"`$(top)/bld/get-version $(top)`"'

sum?=$(shell $(CC) -DDNSMASQ_COMPILE_OPTS $(COORDS) -E $(COORDS)/dnsmasq.h | ( md5sum 2>/dev/null || md5 ) | cut -f 1 -d ' ')
sun?=$(shell $(CC) -DDNSMASQ_COMPILE_OPTS $(COORDS) -E $(COORDS)/dnsmasq.h | ( md5sum 2>/dev/null || md5 ) | cut -f 1 -d ' ')

copts_conf = .copts_$(sun)

objs = cache.o rfc1035.o util.o option.o forward.o network.o \
    dnsmasq.o dhcp.o lease.o rfc2131.o netlink.o dbus.o bpf.o \
    helper.o tftp.o log.o conntrack.o dhcp6.o rfc3315.o \
    dhcp-common.o outpacket.o radv.o slaac.o auth.o ipset.o \
    domain.o dnsssec.o blockdata.o tables.o loop.o inotify.o \
    poll.o rffiiter.o edns0.o arp.o crypto.o \

hdrs = dnsmasq.h config.h dhcp-protocol.h dhcp6-protocol.h \ 
    dns-protocol.h radv-protocol.h ip6addr.h

all : $(BUILDDR)
@cd $(BUILDDR) && $(MAKE) \

top="$(top)"

PO = po
MAN = man
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)"
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)"
-f $(top)/Makefile dnsmasq

mostly_clean:
rm -f $(BUILDDIR)/*-mo $(BUILDDIR)/*-pot
rm -f $(BUILDDIR)/.copts_* $(BUILDDIR)/*.o $(BUILDDIR)/dnsmasq.a $(BUILDDIR)/dnsmasq

clean: mostly_clean
rm -f $(BUILDDIR)/dnsmasq_baseline
rm -f core */core
rm -f *~ contrib/*/*~ */*~

install: all install-common

install-common:
$(INSTALL) -d $(DESTDIR)$ (BINDIR) -d $(DESTDIR)$ (MANDIR)/man8
$(INSTALL) -m 644 $(MAN)/dnsmasq.8 $(DESTDIR)$ (MANDIR)/man8
$(INSTALL) -m 755 $(BUILDDIR)/dnsmasq $(DESTDIR)$ (DESTDIR)$ (BINDIR)

all-i18n: $(BUILDDIR)
@cd $(BUILDDIR) & & $(MAKE) \
top="$(top)" \
i18n-n=LOCALEDIR="\"$(LOCALEDIR)\"" \
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)"
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)"
-f $(top)/Makefile dnsmasq
for f in `cd $(PO); echo *.po`; do \
cd $(top) && cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile $${f%.po}.mo; \
done

install-i18n: all-i18n install-common

cd $(BUILDDIR); $(top)/bld/install-mo $(DESTDIR)$ (LOCALATEDIR) $(INSTALL)

cd $(MAN); ../bld/install-man $(DESTDIR)$ (MANDIR) $(INSTALL)

merge:
@cd $(BUILDDIR) & & $(MAKE) top="$(top)" -f $(top)/Makefile dnsmasq.pot
for f in `cd $(PO); echo *.po`; do \
echo -n msgmerge $(PO)/$$f & & $(MSGMERGE) --no-wrap -U $(PO)/$$f $(BUILDDIR)/dnsmasq.pot; \
done

# Canonicalise .po file.
.po:
@cd $(BUILDDIR) & & $(MAKE) -f $(top)/Makefile dnsmasq.pot
mv $(PO)/$*.po $(PO)/$*.po.orig & & $(MSGMERGE) --no-wrap $(PO)/$$f $(BUILDDIR)/dnsmasq.pot >$(PO)/$*.po;

$(BUILDDIR):
mkdir -p $(BUILDDIR)

# rules below are helpers for size tracking

baseline : mostly_clean all
@cd $(BUILDDIR) && \
mv dnsmasq dnsmasq_baseline

bloatcheck : $(BUILDDIR)/dnsmasq_baseline mostly_clean all
@cd $(BUILDDIR) && \
$(top)/bld/bloat-o-meter dnsmasq_baseline dnsmasq; \\
size dnsmasq_baseline dnsmasq

# rules below are targets in recursive makes with cwd=$(BUILDDIR)

$(copts_conf): $(hdrs)
@rm -f *.o .copts_*
@touch $@

$(objs:.o=.c) $(hdrs):
ln -s $(top)/$(SRC)/$@ .

$(objs): $(copts_conf) $(hdrs)

.o:
$(CC) $(CFLAGS) $(COPTS) $(i18n) $(build_cflags) $(RPM_OPT_FLAGS) -c $<

dnsmasq : $(objs)
$(CC) $(LDFLAGS) -o $@ $(objs) $(build_libs) $(LIBS)

dnsmasq.pot : $(objs:.o=.c) $(hdrs)
$(XGETTEXT) -d dnsmasq --foreign-user --omit-header --keyword=_ -o $@ -i $(objs:.o=.c)

%.mo : $(top)/$(PO)/%.po dnsmasq.pot
$(MSGMERGE) -o - $(top)/$(PO)/$*.po dnsmasq.pot | $(MSGFMT) -o $*.mo -

.PHONY : all clean mostly_clean install install-common all-i18n install-i18n merge baseline bloatcheck

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#include "dnsmasq.h"

/* Time between forced re-loads from kernel. */
#define INTERVAL 90

#define ARP_MARK 0
#define ARP_FOUND 1 /* Confirmed */
#define ARP_NEW 2 /* Newly created */
#define ARP_EMPTY 3 /* No MAC addr */

struct arp_record {
    unsigned short hwlen, status;
    int family;
    unsigned char hwaddr[DHCP_CHADDR_MAX];
    struct all_addr addr;
    struct arp_record *next;
};

static struct arp_record *arps = NULL, *old = NULL, *freelist = NULL;
static time_t last = 0;

static struct arp_record *arps = NULL, *old = NULL, *freelist = NULL;
static time_t last = 0;

static int filter_mac(int family, char *addrp, char *mac, size_t maclen, void *parmv)
{
    struct arp_record *arp;

    (void)parmv;

    if (maclen > DHCP_CHADDR_MAX)
        return 1;

    #ifndef HAVE_IPV6
    if (family != AF_INET)
        return 1;
    #endif

    /* Look for existing entry */
    for (arp = arps; arp; arp = arp->next)
    {
      if (family != arp->family || arp->status == ARP_NEW)
        continue;

      if (family == AF_INET)
    {
if (arp->addr.addr.addr4.s_addr != ((struct in_addr *)addrp)->s_addr)
    continue;
}
#endif HAVE_IPV6
else
{
    if (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, (struct in6_addr *)addrp))
        continue;
}
#endif

if (arp->status == ARP_EMPTY)
{
    /* existing address, was negative. */
    arp->status = ARP_NEW;
    arp->hwlen = maclen;
    memcpy(arp->hwaddr, mac, maclen);
}
else if (arp->hwlen == maclen && memcmp(arp->hwaddr, mac, maclen) == 0)
    /* Existing entry matches - confirm. */
    arp->status = ARP_FOUND;
else
    continue;

    break;
}

if (!arp)
{
    /* New entry */
    if (freelist)
    {
        arp = freelist;
        freelist = freelist->next;
    }
    else if (! (arp = whine_malloc(sizeof(struct arp_record))))
        return 1;

    arp->next = arps;
    arps = arp;
    arp->status = ARP_NEW;
    arp->hwlen = maclen;
    arp->family = family;
    memcpy(arp->hwaddr, mac, maclen);
    if (family == AF_INET)
        arp->addr.addr.addr4.s_addr = ((struct in_addr *)addrp)->s_addr;
    #ifdef HAVE_IPV6
        else
            else
memcpy(&arp->addr.addr.addr6, addrp, IN6ADDRSZ);
#endif

return 1;
}

/* If in lazy mode, we cache absence of ARP entries. */
int find_mac(union mysockaddr *addr, unsigned char *mac, int lazy, time_t now)
{
    struct arp_record *arp, *tmp, **up;
    int updated = 0;

    again:

    /* If the database is less then INTERVAL old, look in there */
    if (difftime(now, last) < INTERVAL)
    {
        /* addr == NULL -> just make cache up-to-date */
        if (!addr)
            return 0;

        for (arp = arps; arp; arp = arp->next)
        {
            if (addr->sa.sa_family != arp->family)
                continue;

            if (arp->family == AF_INET &&
                arp->addr.addr.addr4.s_addr != addr->in.sin_addr.s_addr)
                continue;

            if (arp->family == AF_INET6 &&
                !IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, &addr->in6.sin6_addr))
                continue;
        }
    }

    #ifdef HAVE_IPV6
    if (arp->family == AF_INET6 &&
        (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, &addr->in6.sin6_addr))
        continue;
    #endif

    /* Only accept positive entries unless in lazy mode. */
    if (arp->status != ARP_EMPTY || lazy || updated)
    {
        if (mac && arp->hwlen != 0)
            memcpy(mac, arp->hwaddr, arp->hwlen);
        return arp->hwlen;
    }
    }

    /* Not found, try the kernel */
if (!updated)
{
    updated = 1;
    last = now;

    /* Mark all non-negative entries */
    for (arp = arps; arp; arp = arp->next)
        if (arp->status != ARP_EMPTY)
            arp->status = ARP_MARK;

    iface Enumerate(AF_UNSPEC, NULL, filter_mac);

    /* Remove all unconfirmed entries to old list. */
    for (arp = arps, up = &arps; arp; arp = tmp)
    {
        tmp = arp->next;
        if (arp->status == ARP_MARK)
        {
            *up = arp->next;
            arp->next = old;
            old = arp;
        }
        else
            up = &arp->next;
    }

    goto again;
}

/* record failure, so we don't consult the kernel each time
 we're asked for this address */
if (freelist)
{
    arp = freelist;
    freelist = freelist->next;
}
else
    arp = whine_malloc(sizeof(struct arp_record));

if (arp)
{
    arp->next = arps;
    arps = arp;
    arp->status = ARP_EMPTY;
    arp->family = addr->sa.sa_family;
    arp->hwlen = 0;
if (addr->sa.sa_family == AF_INET)
  arp->addr.addr.addr4.s_addr = addr->in.sin_addr.s_addr;
#else
  memcpy(&arp->addr.addr.addr6, &addr->in6.sin6_addr, IN6ADDRSZ);
#endif
}

return 0;
}

int do_arp_script_run(void)
{
  struct arp_record *arp;

  /* Notify any which went, then move to free list */
  if (old)
  {
    #ifdef HAVE_SCRIPT
    if (option_bool(OPT_SCRIPT_ARP))
      queue_arp(ACTION_ARP_DEL, old->hwaddr, old->hwlen, old->family, &old->addr);
    #endif
    arp = old;
    old = arp->next;
    arp->next = freelist;
    freelist = arp;
    return 1;
  }

  for (arp = arps; arp; arp = arp->next)
    if (arp->status == ARP_NEW)
    {
      #ifdef HAVE_SCRIPT
      if (option_bool(OPT_SCRIPT_ARP))
        queue_arp(ACTION_ARP, arp->hwaddr, arp->hwlen, arp->family, &arp->addr);
      #endif
      arp->status = ARP_FOUND;
      return 1;
    }

  return 0;
}

Q: Why does dnsmasq open UDP ports >1024 as well as port 53.
   Is this a security problem/trojan/backdoor?

A: The high ports that dnsmasq opens are for replies from the upstream
nameserver(s). Queries from dnsmasq to upstream nameservers are sent from these ports and replies received to them. The reason for doing this is that most firewall setups block incoming packets _to_ port 53, in order to stop DNS queries from the outside world. If dnsmasq sent its queries from port 53 the replies would be _to_ port 53 and get blocked.

This is not a security hole since dnsmasq will only accept replies to that port: queries are dropped. The replies must be to outstanding queries which dnsmasq has forwarded, otherwise they are dropped too.

Addendum: dnsmasq now has the option "query-port" (-Q), which allows you to specify the UDP port to be used for this purpose. If not specified, the operating system will select an available port number just as it did before.

Second addendum: following the discovery of a security flaw in the DNS protocol, dnsmasq from version 2.43 has changed behavior. It now uses a new, randomly selected, port for each query. The old default behaviour (use one port allocated by the OS) is available by setting --query-port=0, and setting the query port to a positive value still works. You should think hard and know what you are doing before using either of these options.

Q: Why doesn't dnsmasq support DNS queries over TCP? Don't the RFC's specify that?

A: Update: from version 2.10, it does. There are a few limitations: data obtained via TCP is not cached, and source-address or query-port specifications are ignored for TCP.

Q: When I send SIGUSR1 to dump the contents of the cache, some entries have no IP address and are for names like mymachine.mydomain.com.mydomain.com. What are these?

A: They are negative entries: that's what the N flag means. Dnmasq asked an upstream nameserver to resolve that address and it replied "doesn't exist, and won't exist for <n> hours" so dnmasq saved that information so that if _it_ gets asked the same question it can answer directly without having to go back to the upstream server again. The strange repeated domains result from the way resolvers search short names. See "man resolv.conf" for details.

Q: Will dnsmasq compile/run on non-Linux systems?

A: Yes, there is explicit support for *BSD and MacOS X and Solaris. There are start-up scripts for MacOS X Tiger and Panther in /contrib. Dnmasq will link with uclibc to provide small
binaries suitable for use in embedded systems such as routers. (There's special code to support machines with flash filesystems and no battery-backed RTC.) If you encounter make errors with *BSD, try installing gmake from ports and building dnsmasq with "make MAKE=gmake" For other systems, try altering the settings in config.h.

Q: My company's nameserver knows about some names which aren't in the public DNS. Even though I put it first in /etc/resolv.conf, it doesn't work: dnsmasq seems not to use the nameservers in the order given. What am I doing wrong?

A: By default, dnsmasq treats all the nameservers it knows about as equal: it picks the one to use using an algorithm designed to avoid nameservers which aren't responding. To make dnsmasq use the servers in order, give it the -o flag. If you want some queries sent to a special server, think about using the -S flag to give the IP address of that server, and telling dnsmasq exactly which domains to use the server for.

Q: OK, I've got queries to a private nameserver working, now how about reverse queries for a range of IP addresses?

A: Use the standard DNS convention of <reversed address>.in-addr.arpa. For instance to send reverse queries on the range 192.168.0.0 to 192.168.0.255 to a nameserver at 10.0.0.1 do server=/0.168.192.in-addr.arpa/10.0.0.1 Note that the "bogus-priv" option take priority over this option, so the above will not work when the bogus-priv option is set.

Q: Dnsmasq fails to start with an error like this: "dnsmasq: bind failed: Cannot assign requested address". What's the problem?

A: This has been seen when a system is bringing up a PPP interface at boot time: by the time dnsmasq start the interface has been created, but not brought up and assigned an address. The easiest solution is to use --interface flags to specify which interfaces dnsmasq should listen on. Since you are unlikely to want dnsmasq to listen on a PPP interface and offer DNS service to the world, the problem is solved.

Q: I'm running on BSD and dnsmasq won't accept long options on the command line.

A: Dnsmasq when built on some BSD systems doesn't use GNU getopt by default. You can either just use the single-letter options or change config.h and the Makefile to use getopt-long. Note that options in /etc/dnsmasq.conf must always be the long form,
Q: Names on the internet are working fine, but looking up local names from /etc/hosts or DHCP doesn't seem to work.

A: Resolver code sometime does strange things when given names without any dots in. Win2k and WinXP may not use the DNS at all and just try and look up the name using WINS. On unix look at "options ndots:" in "man resolv.conf" for details on this topic. Testing lookups using "nslookup" or "dig" will work, but then attempting to run "ping" will get a lookup failure, appending a dot to the end of the hostname will fix things. (ie "ping myhost" fails, but "ping myhost." works. The solution is to make sure that all your hosts have a domain set ("domain" in resolv.conf, or set a domain in your DHCP server, see below for Windows XP and Mac OS X). Any domain will do, but "localnet" is traditional. Now when you resolve "myhost" the resolver will attempt to look up "myhost.localnet" so you need to have dnsmasq reply to that name. The way to do that is to include the domain in each name on /etc/hosts and/or to use the --expand-hosts and --domain options.

Q: How do I set the DNS domain in Windows XP or MacOS X (ref: previous question)?

A: for XP, Control Panel > Network Connections > { Connection to gateway / DNS } > Properties > { Highlight TCP/IP } > Properties > Advanced > DNS Tab > DNS suffix for this connection:

A: for OS X, System Preferences > Network > {Connection to gateway / DNS } > Search domains:

Q: Can I get dnsmasq to save the contents of its cache to disk when I shut my machine down and re-load when it starts again?

A: No, that facility is not provided. Very few names in the DNS have their time-to-live set for longer than a few hours so most of the cache entries would have expired after a shutdown. For longer-lived names it's much cheaper to just reload them from the upstream server. Note that dnsmasq is not shut down between PPP sessions so go off-line and then on-line again will not lose the contents of the cache.

Q: Who are Verisign, what do they have to do with the bogus-nxdomain option in dnsmasq and why should I worry about it?

A: [note: this was written in September 2003, things may well change.] Verisign run the .com and .net top-level-domains. They have just changed the configuration of their servers so that unknown .com and
.net domains, instead of returning an error code NXDOMAIN, (no such
domain) return the address of a host at Verisign which runs a web
server showing a search page. Most right-thinking people regard
this new behaviour as broken :-). You can test to see if you are
suffering Verisign brokenness by run a command like

host jlsdajkdalld.com

If you get "jlsdajkdalld.com" does not exist, then all is fine, if
host returns an IP address, then the DNS is broken. (Try a few
different unlikely domains, just in case you picked a weird one
which really _is_ registered.)

Assuming that your DNS is broken, and you want to fix it, simply
note the IP address being returned and pass it to dnsmasq using the
--bogus-nxdomain flag. Dnsmasq will check for results returning
that address and substitute an NXDOMAIN instead.

As of writing, the IP address in question for the .com and .net
domains is is 64.94.110.11. Various other, less prominent,
registries pull the same stunt; there is a list of them all, and
the addresses to block, at http://winware.org/bogus-domains.txt

Q: This new DHCP server is well and good, but it doesn't work for me.
What's the problem?

A: There are a couple of configuration gotchas which have been
encountered by people moving from the ISC dhcpd to the dnsmasq
integrated DHCP daemon. Both are related to differences in
in the way the two daemons bypass the IP stack to do "ground up"
IP configuration and can lead to the dnsmasq daemon failing
whilst the ISC one works.

The first thing to check is the broadcast address set for the
ethernet interface. This is normally the address on the connected
network with all ones in the host part. For instance if the
address of the ethernet interface is 192.168.55.7 and the netmask
is 255.255.255.0 then the broadcast address should be
192.168.55.255. Having a broadcast address which is not on the
network to which the interface is connected kills things stone
dead.

The second potential problem relates to firewall rules; since the ISC
daemon in some configurations bypasses the kernel firewall rules
entirely, the ability to run the ISC daemon does not indicate
that the current configuration is OK for the dnsmasq daemon.
For the dnsmasq daemon to operate it's vital that UDP packets to
and from ports 67 and 68 and broadcast packets with source
address 0.0.0.0 and destination address 255.255.255.255 are not dropped by iptables/ipchains.

Q: I'm running Debian, and my machines get an address fine with DHCP, but their names are not appearing in the DNS.

A: By default, none of the DHCP clients send the host-name when asking for a lease. For most of the clients, you can set the host-name to send with the "hostname" keyword in /etc/network/interfaces. (See "man interfaces" for details.) That doesn't work for dhclient, were you have to add something like "send host-name daisy" to /etc/dhclient.conf [Update: the latest dhcpcd packages _do_ send the hostname by default.

Q: I'm network booting my machines, and trying to give them static DHCP-assigned addresses. The machine gets its correct address whilst booting, but then the OS starts and it seems to get allocated a different address.

A: What is happening is this: The boot process sends a DHCP request and gets allocated the static address corresponding to its MAC address. The boot loader does not send a client-id. Then the OS starts and repeats the DHCP process, but it does send a client-id. Dnsmasq cannot assume that the two requests are from the same machine (since the client ID's don't match) and even though the MAC address has a static allocation, that address is still in use by the first incarnation of the machine (the one from the boot, without a client ID.) Dnsmasq therefore has to give the machine a dynamic address from its pool. There are three ways to solve this:
(1) persuade your DHCP client not to send a client ID, or (2) set up the static assignment to the client ID, not the MAC address. The default client-id will be 01:<MAC address>, so change the dhcp-host line from "dhcp-host=11:22:33:44:55:66,1.2.3.4" to "dhcp-host=id:01:11:22:33:44:55:66,1.2.3.4" or (3) tell dnsmasq to ignore client IDs for a particular MAC address, like this:


Q: What network types are supported by the DHCP server?

A: Ethernet (and 802.11 wireless) are supported on all platforms. On Linux all network types (including FireWire) are supported.

Q: What are these strange "bind-interface" and "bind-dynamic" options?

A: Dnsmasq from v2.63 can operate in one of three different "networking modes". This is unfortunate as it requires users configuring dnsmasq to take into account some rather bizarre constraints and select the mode which best fits the requirements of a particular installation.
The origin of these are deficiencies in the Unix networking model and APIs and each mode has different advantages and problems. Just to add to the confusion, not all modes are available on all platforms (due the to lack of supporting network APIs). To further add to the confusion, the rules for the DHCP subsystem on dnsmasq are different to the rules for the DNS and TFTP subsystems.

The three modes are "wildcard", "bind-interfaces" and "bind-dynamic".

In "wildcard" mode, dnsmasq binds the wildcard IP address (0.0.0.0 or ::). This allows it to receive all the packets sent to the server on the relevant port. Access control (--interface, --except-interface, --listen-address, etc) is implemented by dnsmasq: it queries the kernel to determine the interface on which a packet was received and the address to which it was sent, and applies the configured rules. Wildcard mode is the default if neither of the other modes are specified.

In "bind-interfaces" mode, dnsmasq runs through all the network interfaces available when it starts, finds the set of IP addresses on those interfaces, filters that set using the access control configuration, and then binds the set of IP addresses. Only packets sent to the allowed addresses are delivered by the kernel to dnsmasq.

In "bind-dynamic" mode, access control filtering is done both by binding individual IP addresses, as for bind-interfaces, and by inspecting individual packets on arrival as for wildcard mode. In addition, dnsmasq notices when new interfaces appear or new addresses appear on existing interfaces, and the resulting IP addresses are bound automatically without having to restart dnsmasq.

The mode chosen has four different effects: co-existence with other servers, semantics of --interface access control, effect of new interfaces, and legality of --interface specifications for non-existent interfaces. We will deal with these in order.

A dnsmasq instance running in wildcard mode precludes a machine from running a second instance of dnsmasq or any other DNS, TFTP or DHCP server. Attempts to do so will fail with an "address in use" error. Dnsmasq running in --bind-interfaces or bind-dynamic mode allow other instances of dnsmasq or other servers, as long as no two servers are configured to listen on the same interface address.

The semantics of --interface varies subtly between wildcard or bind-dynamic mode and bind-interfaces mode. The situation where this matters is a request which arrives via one interface (A), but with a destination address of a second interface (B) and when dnsmasq is configured to listen only on B. In wildcard or bind-dynamic mode, such
a request will be ignored, in bind-interfaces mode, it will be accepted.

The creation of new network interfaces after dnsmasq starts is ignored by dnsmasq when in --bind-interfaces mode. In wildcard or bind-dynamic mode, such interfaces are handled normally.

An --interface specification for a non-existent interface is a fatal error at start-up when in --bind-interfaces mode, by just generates a warning in wildcard or bind-dynamic mode.

Q: Why doesn't Kerberos work/why can't I get sensible answers to queries for SRV records.

A: Probably because you have the "filterwin2k" option set. Note that it was on by default in example configuration files included in versions before 2.12, so you might have it set on without realising.

Q: Can I get email notification when a new version of dnsmasq is released?

A: Yes, new releases of dnsmasq are always announced through freshmeat.net, and they allow you to subscribe to email alerts when new versions of particular projects are released. New releases are also announced in the dnsmasq-discuss mailing list, subscribe at http://lists.thekelleys.org.uk/mailman/listinfo/dnsmasq-discuss

Q: What does the dhcp-authoritative option do?

A: The DHCP spec says that when a DHCP server receives a renewal request from a client it has no knowledge of, it should just ignore it. This is because it's supported to have more than one DHCP server on a network, and another DHCP server may be dealing with the client. This has the unfortunate effect that when _no_ DHCP replies to the client, it takes some time for the client to time-out and start to get a new lease. Setting this option makes dnsmasq violate the standard to the extent that it will send a NAK reply to the client, causing it to immediately start to get a new lease. This improves behaviour when machines move networks, and in the case that the DHCP lease database is lost. As long as there are not more tha one DHCP server on the network, it's safe to enable the option.

Q: Why does my Gentoo box pause for a minute before getting a new lease?

A: Because when a Gentoo box shuts down, it releases its lease with the server but remembers it on the client; this seems to be a
Gentoo-specific patch to dhcpcd. On restart it tries to renew a lease which is long gone, as far as dnsmasq is concerned, and dnsmasq ignores it until is times out and restarts the process. To fix this, set the dhcp-authoritative flag in dnsmasq.

Q: My laptop has two network interfaces, a wired one and a wireless one. I never use both interfaces at the same time, and I'd like the same IP and configuration to be used irrespective of which interface is in use. How can I do that?

A: By default, the identity of a machine is determined by using the MAC address, which is associated with interface hardware. Once an IP is bound to the MAC address of one interface, it cannot be associated with another MAC address until after the DHCP lease expires. The solution to this is to use a client-id as the machine identity rather than the MAC address. If you arrange for the same client-id to sent when either interface is in use, the DHCP server will recognise the same machine, and use the same address. The method for setting the client-id varies with DHCP client software, dhcpcd uses the "-I" flag. Windows uses a registry setting, see http://www.jsiinc.com/SUBF/TIP2800/rh2845.htm

Addendum:
From version 2.46, dnsmasq has a solution to this which doesn't involve setting client-IDs. It's possible to put more than one MAC address in a --dhcp-host configuration. This tells dnsmasq that it should use the specified IP for any of the specified MAC addresses, and furthermore it gives dnsmasq permission to summarily abandon a lease to one of the MAC addresses if another one comes along. Note that this will work fine only as longer as only one interface is up at any time. There is no way for dnsmasq to enforce this constraint: if you configure multiple MAC addresses and violate this rule, bad things will happen.

Addendum-II: The link above is dead, the former contents of the link are:

How can I keep the same DHCP client reservation, if the MAC address changes?

When you reserve an IP address for a DHCP client, you provide the MAC address of the client's NIC.

It is possible to use a custom identifier, which is sent as option 61 in the client's DHCP Discover and Request packet.

The DhcpClientIdentifier is a REG_DWORD value that is located at:

Windows NT 4.0 SP2+
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\<Adapter Name>'X\Parameters\Tcpip

where <Adapter Name> is the NIC driver name and 'X' is the number of the NIC.

Windows 2000

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\TcpIp\Parameters\Interfaces\<NIC GUID>

where <NIC GUID> is the GUID of the NIC.

The valid range of data is 0x0 - 0xFFFFFFFF. The custom identifier is send as 4 bytes,
8 hexadecimal character, in groups of 2 hexadecimal characters, with the groups being
sent in reverse order. If the custom identifier is less than 8 hexadecimal characters,
it is zero padded at the end. Examples:

<table>
<thead>
<tr>
<th>Custom Client Identifier</th>
<th>Client Reservation</th>
</tr>
</thead>
<tbody>
<tr>
<td>12345678</td>
<td>78563412</td>
</tr>
<tr>
<td>123456</td>
<td>56341200</td>
</tr>
<tr>
<td>123</td>
<td>34120000</td>
</tr>
<tr>
<td>1234567</td>
<td>67452301</td>
</tr>
<tr>
<td>12345</td>
<td>45230100</td>
</tr>
<tr>
<td>123</td>
<td>23010000</td>
</tr>
<tr>
<td>A18F42</td>
<td>428FA100</td>
</tr>
<tr>
<td>CF432</td>
<td>32F40C00</td>
</tr>
<tr>
<td>C32D1BE</td>
<td>BED1320C</td>
</tr>
</tbody>
</table>

Q: Can dnsmasq do DHCP on IP-alias interfaces?

A: Yes, from version-2.21. The support is only available running under Linux, on a kernel which provides the RT-netlink facility. All 2.4 and 2.6 kernels provide RT-netlink and it's an option in 2.2 kernels.

If a physical interface has more than one IP address or aliases with extra IP addresses, then any dhcp-ranges corresponding to these addresses can be used for address allocation. So if an interface has addresses 192.168.1.0/24 and 192.168.2.0/24 and there are DHCP ranges 192.168.1.100-192.168.1.200 and 192.168.2.100-192.168.2.200 then both ranges would be used for host connected to the physical interface. A more typical use might be to have one of the address-ranges as static-only, and have known hosts allocated addresses on that subnet using dhcp-host options, while anonymous hosts go on the other.
Q: Dnsmasq sometimes logs "nameserver xxx.xxx.xxx.xxx refused
to do a recursive query" and DNS stops working. What's going on?

A: Probably the nameserver is an authoritative nameserver for a
particular domain, but is not configured to answer general DNS
queries for an arbitrary domain. It is not suitable for use by
dnsmasq as an upstream server and should be removed from the
configuration. Note that if you have more than one upstream
nameserver configured dnsmasq will load-balance across them and
it may be some time before dnsmasq gets around to using a
particular nameserver. This means that a particular configuration
may work for sometime with a broken upstream nameserver
configuration.

Q: Does the dnsmasq DHCP server probe addresses before allocating
them, as recommended in RFC2131?

A: Yes, dynamically allocated IP addresses are checked by sending an
ICMP echo request (ping). If a reply is received, then dnsmasq
assumes that the address is in use, and attempts to allocate an
different address. The wait for a reply is between two and three
seconds. Because the DHCP server is not re-entrant, it cannot serve
other DHCP requests during this time. To avoid dropping requests,
the address probe may be skipped when dnsmasq is under heavy load.

Q: I'm using dnsmasq on a machine with the Firestarter firewall, and
DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to
proceed can be found at

Q: I'm using dnsmasq on a machine with the shorewall firewall, and
DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to
proceed can be found at

Q: Dnsmasq fails to start up with a message about capabilities.
Why did that happen and what can do to fix it?
A: Change your kernel configuration: either deselect `CONFIG_SECURITY` or select `CONFIG_SECURITY_CAPABILITIES`. Alternatively, you can remove the need to set capabilities by running `dnsmasq` as root.

Q: Where can I get .rpms Suitable for openSUSE/SLES?

A: Dnsmasq is in openSUSE itself, and the latest releases are also available at http://download.opensuse.org/repositories/network/

Q: Can I run dnsmasq in a Linux vserver?

A: Yes, as a DNS server, dnsmasq will just work in a vserver. To use dnsmasq's DHCP function you need to give the vserver extra system capabilities. Please note that doing so will lesser the overall security of your system. The capabilities required are `NET_ADMIN` and `NET_RAW`. `NET_ADMIN` is essential, `NET_RAW` is required to do an ICMP "ping" check on newly allocated addresses. If you don't need this check, you can disable it with `--no-ping` and omit the `NET_RAW` capability.

Adding the capabilities is done by adding them, one per line, to either `/etc/vservers/<vservername>/ccapabilities` for a 2.4 kernel or `/etc/vservers/<vservername>/bcapabilities` for a 2.6 kernel (please refer to the vserver documentation for more information).

Q: What's the problem with syslog and dnsmasq?

A: In almost all cases: none. If you have the normal arrangement with local daemons logging to a local syslog, which then writes to disk, then there's never a problem. If you use network logging, then there's a potential problem with deadlock: the syslog daemon will do DNS lookups so that it can log the source of log messages, these lookups will (depending on exact configuration) go through dnsmasq, which also sends log messages. With bad timing, you can arrive at a situation where syslog is waiting for dnsmasq, and dnsmasq is waiting for syslog; they will both wait forever. This problem is fixed from dnsmasq-2.39, which introduces asynchronous logging: dnsmasq no longer waits for syslog and the deadlock is broken. There is a remaining problem in 2.39, where "log-queries" is in use. In this case most DNS queries generate two log lines, if these go to a syslog which is doing a DNS lookup for each log line, then those queries will in turn generate two more log lines, and a chain reaction runaway will occur. To avoid this, use syslog-ng and turn on syslog-ng's dns-cache function.
Q: DHCP doesn't work with windows Vista, but everything else is fine.

A: The DHCP client on windows Vista (and possibly later versions) demands that the DHCP server send replies as broadcasts. Most other clients don't do this. The broadcasts are send to 255.255.255.255. A badly configured firewall which blocks such packets will show exactly these symptoms (Vista fails, others work).

Q: DHCP doesn't work with windows 7 but everything else is fine.

A: There seems to be a problem if Windows 7 doesn't get a value for DHCP option 252 in DHCP packets it gets from the server. The symptoms have been variously reported as continual DHCPINFORM requests in an attempt to get an option-252, or even ignoring DHCP offers completely (and failing to get an IP address) if there is no option-252 supplied. DHCP option 252 is for WPAD, WWW Proxy Auto Detection and if you don't want or need to use that, then simplest fix seems to be to supply an empty option with:

dhcp-option=252,"n"

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

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Gocheck - A rich testing framework for Go

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/* FAT32, VFAT, Atari format support, and various fixes additions May 1998
* by Roman Hodek <Roman.Hodek@informatik.uni-erlangen.de> */

1.39 DPDK-18.02.2 18.02.2

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Theodore Ts'o
23-June-2007

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

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

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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.
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command-line interface parsing library. It is currently
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This package was put together by Yann Dirson <dirson@debian.org>,
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/**
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-  - Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
+ Copyright (C) Jeremy Allison 2000-2006
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** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Gadi Oxman, August 1995

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

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1.41 ecdsa 0.13
1.41.1 Available under license:
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1.42 efitools
1.7.0+git0649468475d20d8ca5634433c4912467cef3ce93
1.42.1 Available under license:

efitools - useful tools for manipulating UEFI secure boot platforms

(c) 2012 James Bottomley

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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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as well as additional helper classes that build on JDK-provided gzip (deflat)
codec.

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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi). It was started at Ning, Inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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May 22, 2015

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The code for the t-digest was originally authored by Ted Dunning

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##
* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
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// ------------------------------------------------------------------
// Transitive dependencies of this project determined from the
// maven pom organized by organization.
// ------------------------------------------------------------------

Apache Extras for Apache log4j.

From: 'an unknown organization'
- geronimo-jms_1.1_spec org.apache.geronimo.specs:geronimo-jms_1.1_spec:jar:1.0

From: 'Apache Software Foundation' (http://www.apache.org)
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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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@mtia.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 Detlef(s@src.dec.com) provided several generic bug fixes.

Alistair G. Crooks(agle@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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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end example

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* m4/ax_func_which_gethostbyname_r.m4

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import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
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        # any later version.

        # This script adjusts the copyright notices at the top of source files
        # so that they have the form:
        #
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        # 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.

        def __init__(self):
            self.num_errors = 0

        def report(self, filename, string):
            pass
if filename:
string = filename + ': ' + string
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 ([
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'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',
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'config.guess',
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'depcomp',
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'ltsugar.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

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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]+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 + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(
            # 1: 'Copyright (C)', etc.
            '([Cc]opyright'|'
             [Cc]opyrights\s+\([Cc]\)')|
            '
             [Cc]opyrights\s+\%s'|
            '
             [Cc]opyrights+&copy;'|
            '
             [Cc]opyrights+\@copyright\{\}'|
            'copyright = \u''|
            '@set\s+copyright[\w-]+')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\(\s*\(?::?:\s+ranges +\?,?,?\)'|
        '@value\{[^\{]*\}s\*\)'|

        # 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 + */)?)'

# 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):
        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...

            Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        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',
            '.h90',
            '.h90i',
            '.h90m',
            '.h90r',
            '.h90t',
            '.h90w',
        '])
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(["introduction.xml",
            # Contains no copyright of its own, but quotes the GPL.
            'html',
        ])

        self.skip_dirs |= set(["html", "build", "docs", "example", "include", "lib", "tests", "tools", "vendors", "web", "work"])

    def skip_file(self, filename):
        if filename in self.skip_files:
            return True
        return GenericFilter.skip_file(self, filename)
# 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 ('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_external_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.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

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('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        # libgo 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',
    'libdecmath',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()

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<signature of Ty Coon>, 1 April 1990
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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
<tr>
<td>@ignore</td>
<td></td>
</tr>
<tr>
<td>@c Set file name and title for man page.</td>
<td></td>
</tr>
<tr>
<td>@setfilename gpl</td>
<td></td>
</tr>
<tr>
<td>@settitle GNU General Public License</td>
<td></td>
</tr>
<tr>
<td>@c man begin SEEALSO</td>
<td></td>
</tr>
<tr>
<td>gfdl(7), fsf-funding(7).</td>
<td></td>
</tr>
<tr>
<td>@c man end</td>
<td></td>
</tr>
<tr>
<td>@c man begin COPYRIGHT</td>
<td></td>
</tr>
<tr>
<td>Copyright @copyright{} 2007 Free Software Foundation, Inc.</td>
<td></td>
</tr>
</tbody>
</table>

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@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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@enumerate 0
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used for software interchange.

@item
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cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

@item
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received the object code with such an offer, in accord with subsection
6b.

@item
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@end enumerate

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.\fi
 ..
.\" 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+ Clv'-1v'hl'-1p'\s-2+\h'hl'-1p'+\s0v'.1v'hl'-1p'
.\ie n \}
 . ds -- \*(W-
Escape single quotes in literal strings from groff’s Unicode transform.

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’.

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
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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 "_"

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
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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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
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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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d) 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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necessary. Here is a sample; alter the names:

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

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

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Public License instead of this License.

#!/usr/bin/env python

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#
# 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:

```bash
% 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.

```python
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)
                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('
'):
        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...
    """

    # 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 BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            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
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# 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", "alocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# 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/armoptds.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/paint.c", "sim/arm/armsupp.c", "sim/arm/armrdr.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_backends.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-idecode.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/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/pcc.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.h", "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/pcc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/ff.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim_endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
BEGIN{
FS="\"";
print "/* ==> Do not modify this file!! " \
"-*- buffer-read-only: t -*- vi" \
":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 (char *, int);"
print ""
print "static void show_warranty_command (char *, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty)";
print "{";
}
NR == 1,/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/{
if ($0 ~ //)
{
printf " printf_filtered (\"\\n\");\n";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\.[ ]*$/)
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\n\");\n", $NF;
}
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/{
print "}";
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty)";
print "{";
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/{
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;

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printf "\%s\n"; $NF;

END{
  print "\} \n";
  print "\n"
  print "void 

print "\_initialize\_copying (void)\n";
print "\n\nprint " add\_cmd ("copying\", no\_set\_class, show\_copying\_command,\nprint " \(_{\"Conditions for redistributing copies of GDB.\")},\nprint " \&showlist);\nprint " add\_cmd ("warranty\", no\_set\_class, show\_warranty\_command,\nprint " \(_{\"Various kinds of warranty you do not have.\")},\nprint " \&showlist);\nprint " \n
print " */ For old-timers, allow \"info copying\", etc. */\nprint " add\_info ("copying\", show\_copying\_command,\nprint " \(_{\"Conditions for redistributing copies of GDB.\")});\nprint " add\_info ("warranty\", show\_warranty\_command,\nprint " \(_{\"Various kinds of warranty you do not have.\")});\nprint " ] \n"
}
@end 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. @url{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@c This file is intended to be included within another document,
c hence no sectioning command or @node.

display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@end display

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@heading TERMS AND CONDITIONS

@enumerate 0
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@enumerate
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That's all there is to it!
/* setjmp is implemented in setjmp.S */
/* _setjmp is implemented in setjmp.S */

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### 1.60 gmp 6.1.2

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1.69 ipaddress 1.0.19

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Last modified: Jan 5, 2004

A HREF="mailto:dast@nlanr.net">dast@nlanr.net</A>
/* Getopt for GNU.
NOTE: gnu_getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to roland@gnu.ai.mit.edu
before changing it!

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License along with the GNU C Library; see the file COPYING.LIB. If not,
write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330,
Boston, MA 02111-1307, USA. */

/*
* modified July 9, 1999 by mark gates <mgates@nlanr.net>
* Dec 17, 1999
*
* renamed all functions and variables by prepending "gnu_"
* removed/redid a bunch of stuff under the assumption we're
* using a modern standard C compiler.
* add #include <string.h> here for strncmp(). Originally
* it was included only under special conditions.
*
* $Id: gnu_getopt.c,v 1.1.1.1 2004/05/18 01:50:44 kgibbs Exp $
*/

#include <stdio.h>
#include <stdlib.h>
#ifndef _MSC_VER /* Visual C++ doesn't have unistd.h */
#include <unistd.h>
#endif
#include <string.h>
#ifndef _
/* This is for other GNU distributions with internationalized messages.
When compiling libc, the _ macro is predefined. */
#ifndef HAVE_LIBINTL_H
#include <libintl.h>
define _(msgid)gettext (msgid)
#else
#define _(msgid)(msgid)
#endif
#endif
/* This version of `gnu_getopt' appears to the caller like standard Unix `getopt' but it behaves differently for the user, since it allows the user to intersperse the options with the other arguments.

As `gnu_getopt' works, it permutes the elements of ARGV so that, when it is done, all the options precede everything else. Thus all application programs are extended to handle flexible argument order.

Setting the environment variable POSIXLY_CORRECT disables permutation. Then the behavior is completely standard.

GNU application programs can use a third alternative mode in which they can distinguish the relative order of options and other arguments. */
#include "gnu_getopt.h"

#ifndef __cplusplus
extern "C" {
#endif
/* For communication from `gnu_getopt' to the caller.
When `gnu_getopt' finds an option that takes an argument, the argument value is returned here.
Also, when `ordering' is RETURN_IN_ORDER, each non-option ARGV-element is returned here. */
char *gnu_optarg = NULL;
/* Index in ARGV of the next element to be scanned.
This is used for communication to and from the caller and for communication between successive calls to `gnu_getopt'.*/
On entry to `gnu_getopt', zero means this is the first call; initialize.

When `gnu_getopt' returns -1, this is the index of the first of the
non-option elements that the caller should itself scan.

Otherwise, `gnu_optind' communicates from one call to the next
how much of ARGV has been scanned so far. */

/* 1003.2 says this must be 1 before any call. */
int gnu_optind = 1;

/* Formerly, initialization of gnu_getopt depended on gnu_optind==0, which
causes problems with re-calling gnu_getopt as programs generally don't
know that. */
int __gnu_getopt_initialized = 0;

/* The next char to be scanned in the option-element
in which the last option character we returned was found.
This allows us to pick up the scan where we left off.

If this is zero, or a null string, it means resume the scan
by advancing to the next ARGV-element. */
static char *nextchar;

/* Callers store zero here to inhibit the error message
for unrecognized options. */
int gnu_opterr = 1;

/* Set to an option character which was unrecognized.
This must be initialized on some systems to avoid linking in the
system's own gnu_getopt implementation. */
int gnu_optopt = '?';

/* Describe how to deal with options that follow non-option ARGV-elements.

If the caller did not specify anything,
the default is REQUIRE_ORDER if the environment variable
POSIXLY_CORRECT is defined, PERMUTE otherwise.

REQUIRE_ORDER means don't recognize them as options;
stop option processing when the first non-option is seen.
This is what Unix does.
This mode of operation is selected by either setting the environment
variable POSIXLY_CORRECT, or using `+' as the first character of the list of option characters.

PERMUTE is the default. We permute the contents of ARGV as we scan, so that eventually all the non-options are at the end. This allows options to be given in any order, even with programs that were not written to expect this.

RETURN_IN_ORDER is an option available to programs that were written to expect options and other ARGV-elements in any order and that care about the ordering of the two. We describe each non-option ARGV-element as if it were the argument of an option with character code 1. Using `-' as the first character of the list of option characters selects this mode of operation.

The special argument `--' forces an end of option-scanning regardless of the value of `ordering'. In the case of RETURN_IN_ORDER, only `--' can cause `gnu getopt' to return -1 with `gnu_optind' != ARGC. */

static enum {
   REQUIRE_ORDER, PERMUTE, RETURN_IN_ORDER
} ordering;

/* Value of POSIXLY_CORRECT environment variable. */
static char *posixly_correct;

/* Avoid depending on library functions or files whose names are inconsistent. */

static char *
my_index( const char* str, int chr ) {
   while ( *str ) {
      if ( *str == chr )
         return(char *) str;
      str++;
   }
   return 0;
}

/* Handle permutation of arguments. */

/* Describe the part of ARGV that contains non-options that have been skipped. `first_nonopt' is the index in ARGV of the first of them; `last_nonopt' is the index after the last of them. */

static int first_nonopt;
static int last_nonopt;

/* Exchange two adjacent subsequences of ARGV.
One subsequence is elements [first_nonopt,last_nonopt)
which contains all the non-options that have been skipped so far.
The other is elements [last_nonopt,gnu_optind), which contains all
the options processed since those non-options were skipped.

`first_nonopt' and `last_nonopt' are relocated so that they describe
the new indices of the non-options in ARGV after they are moved. */

static void exchange( char **argv );

static void
exchange( char **argv ) {
  int bottom = first_nonopt;
  int middle = last_nonopt;
  int top = gnu_optind;
  char *tem;

  /* Exchange the shorter segment with the far end of the longer segment.
That puts the shorter segment into the right place.
It leaves the longer segment in the right place overall,
but it consists of two parts that need to be swapped next. */

  while ( top > middle && middle > bottom ) {
    if ( top - middle > middle - bottom ) {
      /* Bottom segment is the short one. */
      int len = middle - bottom;
      register int i;

      /* Swap it with the top part of the top segment. */
      for ( i = 0; i < len; i++ ) {
        tem = argv[bottom + i];
        argv[bottom + i] = argv[top - (middle - bottom) + i];
        argv[top - (middle - bottom) + i] = tem;
      }

      /* Exclude the moved bottom segment from further swapping. */
      top -= len;
    } else {
      /* Top segment is the short one. */
      int len = top - middle;
      register int i;

      /* Swap it with the bottom part of the bottom segment. */
      for ( i = 0; i < len; i++ ) {
        tem = argv[bottom + i];
        argv[bottom + i] = argv[middle + i];
argv[middle + i] = tem;
}
/* Exclude the moved top segment from further swapping. */
bottom += len;
}

/* Update records for the slots the non-options now occupy. */
first_nonopt += (gnu_optind - last_nonopt);
last_nonopt = gnu_optind;
}

/* Initialize the internal data when the first call is made. */

static const char *
_gnu_getopt_initialize( int argc,
    char *const * argv,
    const char *optstring );

static const char *
_gnu_getopt_initialize( int argc,
    char *const * argv,
    const char *optstring ) {
/* Start processing options with ARGV-element 1 (since ARGV-element 0
is the program name); the sequence of previously skipped
non-option ARGV-elements is empty. */

first_nonopt = last_nonopt = gnu_optind = 1;

nextchar = NULL;

posixly_correct = getenv ("POSIXLY_CORRECT");

/* Determine how to handle the ordering of options and nonoptions. */

if ( optstring[0] == '-' ) {
optstring[0] = '+'; ++optstring;
} else if ( optstring[0] == '+' ) {
optstring[0] = '+'; ++optstring;
} else if ( posixly_correct != NULL ) {
optstring = REQUIRE_ORDER;
++optstring;
} else if ( posixly_correct != NULL ) {
optstring = REQUIRE_ORDER;
++optstring;
} else
    ordering = PERMUTE;

return optstring;
/* Scan elements of ARGV (whose length is ARGC) for option characters
given in OPTSTRING.

If an element of ARGV starts with '-', and is not exactly "-" or "--",
then it is an option element. The characters of this element
(aside from the initial '-') are option characters. If `gnu_getopt'
is called repeatedly, it returns successively each of the option characters
from each of the option elements.

If `gnu_getopt' finds another option character, it returns that character,
updating `gnu_optind' and `nextchar' so that the next call to `gnu_getopt' can
resume the scan with the following option character or ARGV-element.

If there are no more option characters, `gnu_getopt' returns -1.
Then `gnu_optind' is the index in ARGV of the first ARGV-element
that is not an option. (The ARGV-elements have been permuted
so that those that are not options now come last.)

OPTSTRING is a string containing the legitimate option characters.
If an option character is seen that is not listed in OPTSTRING,
return '?' after printing an error message. If you set `gnu_opterr' to
zero, the error message is suppressed but we still return '?'.

If a char in OPTSTRING is followed by a colon, that means it wants an arg,
so the following text in the same ARGV-element, or the text of the following
ARGV-element, is returned in `gnu_optarg'. Two colons mean an option that
wants an optional arg; if there is text in the current ARGV-element,
it is returned in `gnu_optarg', otherwise `gnu_optarg' is set to zero.

If OPTSTRING starts with `-' or `+', it requests different methods of
handling the non-option ARGV-elements.
See the comments about RETURN_IN_ORDER and REQUIRE_ORDER, above.

Long-named options begin with `--' instead of `-'.
Their names may be abbreviated as long as the abbreviation is unique
or is an exact match for some defined option. If they have an
argument, it follows the option name in the same ARGV-element, separated
from the option name by a `=', or else the in next ARGV-element.
When `gnu_getopt' finds a long-named option, it returns 0 if that option's
`flag' field is nonzero, the value of the option's `val' field
if the `flag' field is zero.

The elements of ARGV aren't really const, because we permute them.
But we pretend they're const in the prototype to be compatible
with other systems.
LONGOPTS is a vector of `struct option' terminated by an
element containing a name which is zero.
LONGIND returns the index in LONGOPT of the long-named option found.
It is only valid when a long-named option has been found by the most
recent call.
If LONG_ONLY is nonzero, '-' as well as '--' can introduce
long-named options. */
int
_gnu_getopt_internal( int argc,
char *const *argv,
const char *optstring,
const struct option *longopts,
int *longind,
int long_only ) {
gnu_optarg = NULL;
if ( !__gnu_getopt_initialized || gnu_optind == 0 ) {
optstring = _gnu_getopt_initialize (argc, argv, optstring);
gnu_optind = 1;
/* Don't scan ARGV[0], the program name. */
__gnu_getopt_initialized = 1;
}
/* Test whether ARGV[gnu_optind] points to a non-option argument.
Either it does not have option syntax, or there is an environment flag
from the shell indicating it is not an option. The later information
is only used when the used in the GNU libc. */
#define NONOPTION_P (argv[gnu_optind][0] != '-' || argv[gnu_optind][1] == '\0')
if ( nextchar == NULL || *nextchar == '\0' ) {
/* Advance to the next ARGV-element. */
/* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been
moved back by the user (who may also have changed the arguments). */
if ( last_nonopt > gnu_optind )
last_nonopt = gnu_optind;
if ( first_nonopt > gnu_optind )
first_nonopt = gnu_optind;
if ( ordering == PERMUTE ) {
/* If we have just processed some options following some non-options,
exchange them so that the options come first. */
if ( first_nonopt != last_nonopt && last_nonopt != gnu_optind )
exchange ((char **) argv);

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else if ( last_nonopt != gnu_optind )
    first_nonopt = gnu_optind;

    /* Skip any additional non-options
     and extend the range of non-options previously skipped. */

    while ( gnu_optind < argc && NONOPTION_P )
        gnu_optind++;
    last_nonopt = gnu_optind;
}

    /* The special ARGV-element `--' means premature end of options.
    Skip it like a null option,
    then exchange with previous non-options as if it were an option,
    then skip everything else like a non-option. */

    if ( gnu_optind != argc && !strcmp (argv[gnu_optind], "--") ) {
        gnu_optind++;

        if ( first_nonopt != last_nonopt && last_nonopt != gnu_optind )
            exchange ((char **) argv);
        else if ( first_nonopt == last_nonopt )
            first_nonopt = gnu_optind;
        last_nonopt = argc;
        gnu_optind = argc;
    }

    /* If we have done all the ARGV-elements, stop the scan
    and back over any non-options that we skipped and permuted. */

    if ( gnu_optind == argc ) {
        /* Set the next-arg-index to point at the non-options
         that we previously skipped, so the caller will digest them. */
        if ( first_nonopt != last_nonopt )
            gnu_optind = first_nonopt;
        return -1;
    }

    /* If we have come to a non-option and did not permute it,
    either stop the scan or describe it to the caller and pass it by. */

    if ( NONOPTION_P ) {
        if ( ordering == REQUIRE_ORDER )
            return -1;
        gnu_optarg = argv[gnu_optind++];
        return 1;
    }
/* We have found another option-ARGV-element. 
Skip the initial punctuation. */

nextchar = (argv[gnu_optind] + 1
  + (longopts != NULL && argv[gnu_optind][1] == '-'));

/* Decode the current option-ARGV-element. */

/* Check whether the ARGV-element is a long option.  
If long_only and the ARGV-element has the form "-f", where f is 
a valid short option, don't consider it an abbreviated form of 
a long option that starts with f. Otherwise there would be no 
way to give the -f short option. 
On the other hand, if there's a long option "fubar" and 
the ARGV-element is "-fu", do consider that an abbreviation of 
the long option, just like "--fu", and not "-f" with arg "u". 
This distinction seems to be the most useful approach. */

if ( longopts != NULL 
  && (argv[gnu_optind][1] == '-' 
    || (long_only && (argv[gnu_optind][2] || !my_index (optstring, argv[gnu_optind][1])))) ) { 
  char *nameend;
  const struct option *p;
  const struct option *pfound = NULL;
  int exact = 0;
  int ambig = 0;
  int indfound = -1;
  int option_index;

  for ( nameend = nextchar; *nameend && *nameend != '='; nameend++ ) /* Do nothing. */;

  /* Test all long options for either exact match 
or abbreviated matches. */
  for ( p = longopts, option_index = 0; p->name; p++, option_index++ ) 
    if ( !strncmp (p->name, nextchar, nameend - nextchar) ) {
      if ( (unsigned int) (nameend - nextchar) 
        == (unsigned int) strlen (p->name) ) {
        /* Exact match found. */
        pfound = p;
        indfound = option_index;
        exact = 1;
        break;
} else if ( pfound == NULL ) {
/* First nonexact match found. */
pfound = p;
indfound = option_index;
} else
/* Second or later nonexact match found. */
ambig = 1;
}
if ( ambig && !exact ) {
if ( gnu_opterr )
fprintf (stderr, _("%s: option `%s' is ambiguous\n"),
argv[0], argv[gnu_optind]);
nextchar += strlen (nextchar);
gnu_optind++;
gnu_optopt = 0;
return '?';
}
if ( pfound != NULL ) {
option_index = indfound;
gnu_optind++;
if ( *nameend ) {
/* Don't test has_arg with >, because some C compilers don't
allow it to be used on enums. */
if ( pfound->has_arg )
gnu_optarg = nameend + 1;
else {
if ( gnu_opterr ) {
if ( argv[gnu_optind - 1][1] == '-' ) {
/* --option */
fprintf (stderr,
_("%s: option `--%s' doesn't allow an argument\n"),
argv[0], pfound->name);
} else {
/* +option or -option */
fprintf (stderr,
_("%s: option `%c%s' doesn't allow an argument\n"),
argv[0], argv[gnu_optind - 1][0], pfound->name);
}
}
nextchar += strlen (nextchar);
gnu_optopt = pfound->val;
return '?';
}
} else if ( pfound->has_arg == 1 ) {

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if ( gnu_optind < argc )
    gnu_optarg = argv[gnu_optind++];
else {
    if ( gnu_opterr )
        fprintf (stderr,
            _("%s: option `\%s' requires an argument\n"),
            argv[0], argv[gnu_optind - 1]);
    nextchar += strlen (nextchar);
    gnu_optopt = pfound->val;
    return optstring[0] == ':' ? ':' : '?';
}

nextchar += strlen (nextchar);
if ( longind != NULL )
    *longind = option_index;
if ( pfound->flag ) {
    *(pfound->flag) = pfound->val;
    return 0;
}
return pfound->val;

/* Can't find it as a long option. If this is not gnu_getopt_long_only, 
or the option starts with '-' or is not a valid short 
option, then it's an error. 
Otherwise interpret it as a short option. */
if ( !long_only || argv[gnu_optind][1] == '-' 
    || my_index (optstring, *nextchar) == NULL ) {
    if ( gnu_opterr ) {
        if ( argv[gnu_optind][1] == '-' )
            /* --option */
            fprintf (stderr, _("%s: unrecognized option `--%s'
"),
                argv[0], nextchar); 
        else
            /* +option or -option */
            fprintf (stderr, _("%s: unrecognized option `\%c%s'
"),
                argv[0], argv[gnu_optind][0], nextchar);
    } else
        /* +option or -option */
        fprintf (stderr, _("%s: unrecognized option `%c%s'
"),
            argv[0], argv[gnu_optind][0], nextchar);

    nextchar = (char*) "";
    gnu_optind++;
    gnu_optopt = 0;
    return '?';
}

/* Look at and handle the next short option-character. */
char c = *nextchar++;
char *temp = my_index (optstring, c);
/* Increment `gnu_optind' when we start to process its last character. */
if ( *nextchar == '\0' )
++gnu_optind;
if ( temp == NULL || c == ':' ) {
if ( gnu_opterr ) {
if ( posixly_correct )
/* 1003.2 specifies the format of this message. */
fprintf (stderr, _("%s: illegal option -- %c\n"),
argv[0], c);
else
fprintf (stderr, _("%s: invalid option -- %c\n"),
argv[0], c);
}
gnu_optopt = c;
return '?';
}
/* Convenience. Treat POSIX -W foo same as long option --foo */
if ( temp[0] == 'W' && temp[1] == ';' ) {
char *nameend;
const struct option *p;
const struct option *pfound = NULL;
int exact = 0;
int ambig = 0;
int indfound = 0;
int option_index;
/* This is an option that requires an argument. */
if ( *nextchar != '\0' ) {
gnu_optarg = nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
we must advance to the next element now. */
gnu_optind++;
} else if ( gnu_optind == argc ) {
if ( gnu_opterr ) {
/* 1003.2 specifies the format of this message. */
fprintf (stderr, _("%s: option requires an argument -- %c\n"),
argv[0], c);
}
gnu_optopt = c;
if ( optstring[0] == ':' )
c = ':';
else
c = '?';
return c;

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} else
/* We already incremented `gnu_optind' once;
increment it again when taking next ARGV-elt as argument. */
gnu_optarg = argv[gnu_optind++];
/* gnu_optarg is now the argument, see if it's in the
table of longopts. */
for ( nextchar = nameend = gnu_optarg; *nameend && *nameend != '='; nameend++ )
/* Do nothing. */ ;
/* Test all long options for either exact match
or abbreviated matches. */
for ( p = longopts, option_index = 0; p->name; p++, option_index++ )
if ( !strncmp (p->name, nextchar, nameend - nextchar) ) {
if ( (unsigned int) (nameend - nextchar) == strlen (p->name) ) {
/* Exact match found. */
pfound = p;
indfound = option_index;
exact = 1;
break;
} else if ( pfound == NULL ) {
/* First nonexact match found. */
pfound = p;
indfound = option_index;
} else
/* Second or later nonexact match found. */
ambig = 1;
}
if ( ambig && !exact ) {
if ( gnu_opterr )
fprintf (stderr, _("%s: option `-W %s' is ambiguous\n"),
argv[0], argv[gnu_optind]);
nextchar += strlen (nextchar);
gnu_optind++;
return '?';
}
if ( pfound != NULL ) {
option_index = indfound;
if ( *nameend ) {
/* Don't test has_arg with >, because some C compilers don't
allow it to be used on enums. */
if ( pfound->has_arg )
gnu_optarg = nameend + 1;
else {
if ( gnu_opterr )
fprintf (stderr, _("\
%s: option `-W %s' doesn't allow an argument\n"),

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argv[0], pfound->name);

nextchar += strlen(nextchar);
return '?';
}
} else if ( pfound->has_arg == 1 )
{
if ( gnu_optind < argc )
gnu_optarg = argv[gnu_optind++];
else {
if ( gnu_opterr )
fperror(stderr,
_("%s: option `\%s' requires an argument\n"),
argv[0], argv[gnu_optind - 1]);
nextchar += strlen(nextchar);
return optstring[0] == ':' ? ':' : '?';
}
}
nextchar += strlen(nextchar);
if ( longind != NULL )
*longind = option_index;
if ( pfound->flag )
*(pfound->flag) = pfound->val;
return 0;
}
return pfound->val;
}
nextchar = NULL;
return 'W'; /* Let the application handle it. */
}
if ( temp[1] == ':' )
{
if ( temp[2] == ':' )
/* This is an option that accepts an argument optionally. */
if ( *nextchar != '\0' )
gnu_optarg = nextchar;
gnu_optind++;
} else
gnu_optarg = NULL;
nextchar = NULL;
}
} else {
/* This is an option that requires an argument. */
if ( *nextchar != '\0' )
gnu_optarg = nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
we must advance to the next element now. */
gnu_optind++;
} else if ( gnu_optind == argc )
{
if ( gnu_opterr )
/* 1003.2 specifies the format of this message. */
fprintf (stderr, 
    "\%s: option requires an argument -- \%c\n"), 
    argv[0], c);
}

gnu_optopt = c;
if ( optstring[0] == ':' )
    c = ':';
else
    c = '?'
} else
    /* We already incremented `gnu_optind' once; 
    increment it again when taking next ARGV-elt as argument. */
    gnu_optarg = argv[gnu_optind++];
nextchar = NULL;
}
}
{return c;
}
}

int
gnu_getopt ( int argc, 
    char *const *argv, 
    const char *optstring ) 
{ 
    return _gnu_getopt_internal (argc, argv, optstring, 
                        (const struct option *) 0, 
                        (int *) 0, 
                        0);
}

#ifdef __cplusplus
} /* end extern "C" */
#endif

#ifdef TEST
/* Compile with -DTEST to make an executable for use in testing 
   the above definition of `gnu_getopt'. */

int
main (argc, argv) 
    int argc;
    int **argv;
{ 
    int c;
    int digit_optind = 0;


while ( 1 ) {
    int this_option_optind = gnu_optind ? gnu_optind : 1;

    c = gnu_getopt (argc, argv, "abc:d:0123456789");
    if ( c == -1 )
        break;

    switch ( c ) {
        case '0':
        case '1':
        case '2':
        case '3':
        case '4':
        case '5':
        case '6':
        case '7':
        case '8':
        case '9':
            if ( digit_optind != 0 && digit_optind != this_option_optind )
                fprintf ( stderr, "digits occur in two different argv-elements.\n" );
            digit_optind = this_option_optind;
            fprintf ( stderr, "option %c\n", c );
            break;

        case 'a':
            fprintf ( stderr, "option a\n" );
            break;

        case 'b':
            fprintf ( stderr, "option b\n" );
            break;

        case 'c':
            fprintf ( stderr, "option c with value " gchar*, gnu_optarg);  
            break;

        case '?':
            break;

        default:
            fprintf ( stderr, "?? gnu_getopt returned character code 0%o ??\n", c );
            break;
    }

    if ( gnu_optind < argc ) {
        fprintf ( stderr, "non-option ARGV-elements: ");
        while ( gnu_optind < argc )
            fprintf ( stderr, "%s ", argv[gnu_optind++]);
    }
}
fprintf ( stderr, "n");
}

exit (0);
}

#endif /* TEST */

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* stdio.c
* 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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* 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 3a0982da308228d796df35f98d787c5c0f2bb5b6.

  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 piostream 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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>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte<8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0  lelong0x864ab572psf2 screen font data
>12lelong&11with Unicode index
>16lelongx%b, %d glyphs
>28lelongx%b, %dx
>24lelongx%b%d
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1.85 kmod 25

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1.87 libcap2 2.25

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1.92 libexpat1 2.2.5-3
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1.93 libffi 3.2.1

1.93.1 Available under license:

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#!/bin/sh

#/***** BEGIN LICENSE BLOCK *****
# Version: MPL 1.1/GPL 2.0/LGPL 2.1
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#
# The Original Code is the MSVC wrappificator.
#
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#
# ***** END LICENSE BLOCK *****
#
# GCC-compatible wrapper for cl.exe and ml.exe. Arguments are given in GCC
# format and translated into something sensible for cl or ml.
#
args_orig=$@
args="-nologo -W3"
static_crt=
dbg_crt=
cl="cl"
ml="ml"
safeseh="-safeseh"
output=

while [ $# -gt 0 ]
do
case $1
in

-fexceptions)
  # Don't enable exceptions for now.
  #args="$args -EHac"
  shift 1

;;
-m32)
  shift 1

;;
-m64)
  ml="ml64" # "$MSVC/x86_amd64/ml64"
  safeseh=
  shift 1

;;
-clang-cl)
  cl="clang-cl"
  safeseh=
  shift 1

;;
-O0)
  args="$args -Od"
  shift 1

;;
-O*)
  # Runtime error checks (enabled by setting -RTC1 in the -DFFI_DEBUG
  # case below) are not compatible with optimization flags and will
  # cause the build to fail. Therefore, drop the optimization flag if
  # -DFFI_DEBUG is also set.
  case $args_orig in
    *-DFFI_DEBUG*)
      args="$args"
      ;;
    *)
      # The ax_cc_maxopt.m4 macro from the upstream autoconf-archive
      # project doesn't support MSVC and therefore ends up trying to
      # use -O3. Use the equivalent "max optimization" flag for MSVC
      # instead of erroring out.
      case $1 in
        -O3)
          args="$args -O2"
          ;;
        *)
          args="$args $1"
          ;;
        esac
        opt="true"
        ;;
      esac

  esac
shift 1
::
  -g)
  # Enable debug symbol generation.
  args="Sargs -Zi"
  shift 1
::
-DFFI_DEBUG)
  # Enable runtime error checks.
  args="$args -RTC1"
  defines="$defines $1"
  shift 1
::
-DUSE_STATIC_RTL)
  # Link against static CRT.
  static_crt=1
  shift 1
::
-DUSE_DEBUG_RTL)
  # Link against debug CRT.
  debug_crt=1
  shift 1
::
-c)
  args="Sargs -c"
  args="$\(echo Sargs \| sed 's%%Fe%%Fo%g'\)"
  single="-c"
  shift 1
::
-D*=*)
  name="$\(echo S\|sed 's/-D\(([^=][^=]*)\)=.*\(=/g'\)"
  value="$\(echo S\|sed 's/-D[^=][^=]=.*=/g'\)"
  args="Sargs -DS\{name\}=$value"
  defines="$defines -DS\{name\}=$value"
  shift 1
::
-D*)
  args="Sargs $1"
  defines="$defines $1"
  shift 1
::
-I)
  args="Sargs -IS2"
  includes="Sincludes -IS2"
  shift 2
::
-I*)
  args="Sargs $1"
includes="$includes $1"
shift 1
;;
-W|-Wextra)
    # TODO map extra warnings
    shift 1
;;
-Wall)
    # -Wall on MSVC is overzealous, and we already build with -W3. Nothing
    # to do here.
    shift 1
;;
-pedantic)
    # libffi tests -pedantic with -Wall, so drop it also.
    shift 1
;;
-Werror)
    args="$args -WX"
    shift 1
;;
-W*)
    # TODO map specific warnings
    shift 1
;;
-S)
    args="$args -FAs"
    shift 1
;;
-o)
    outdir="$(dirname $2)"
    base="$(basename $2|sed 's/[^\-].*//g')"
    if [-n "$single" ]; then
        output="-Fo$2"
    else
        output="-Fe$2"
    fi
    if [-n "$assembly" ]; then
        args="$args $output"
    else
        args="$args $output -Fd$outdir/$base -Fp$outdir/$base -Fa$outdir/$base"
    fi
    shift 2
;;
.*.S)
    src=$1
    assembly="true"
    shift 1
;
*.c)
  args="$args $1"
  shift 1
  ;;
  *)
    # Assume it's an MSVC argument, and pass it through.
    args="$args $1"
    shift 1
  ;;
esac
done

# If -Zi is specified, certain optimizations are implicitly disabled
# by MSVC. Add back those optimizations if this is an optimized build.
# NOTE: These arguments must come after all others.
if [ -n "$opt" ]; then
  args="$args -link -OPT:REF -OPT:ICF -INCREMENTAL:NO"
fi

if [ -n "$static_crt" ]; then
  md=-MT
else
  md=-MD
fi

if [ -n "$debug_crt" ]; then
  md="${md}d"
fi

if [ -n "$assembly" ]; then
  if [ -z "$outdir" ]; then
    outdir="."
  fi
  ppsrc="$outdir/$(basename $src|sed 's/.S$/.asm/g')"
  echo "$cl -nologo -EP $includes $defines $src > $ppsrc"
  "$cl" -nologo -EP $includes $defines $src > $ppsrc || exit $
  output="$(echo $output | sed 's%/F\[dpa\][^ ]*%g')"
  args="-nologo $safeseh $single $output $ppsrc"
  echo "$ml $args"
  eval "\$ml\ $args"
  result=$?
else
  args="$md $args"
  echo "$ml $args"
  mv *.obj $outdir
else
  args="$md $args"
  echo "$cl $args"
# Return an error code of 1 if an invalid command line parameter is passed
# instead of just ignoring it.
eval "($vcl $args 2>&1 1>&3 | \
  awk '{print $0} /D9002/ {error=1} END{exit error}' >&2) 3>&1"
result=$?
fi

exit $result

% texinfo.tex -- TeX macros to handle Texinfo files.
%
% Load plain if necessary, i.e., if running under initex.
\expandafter\ifx\csname fmtname\endcsname\relax\input plain\fi
%
\def\texinfoversion{2013-02-01.11}
%
%
% This texinfo.tex file is free software: you can redistribute it and/or
% modify it under the terms of the GNU General Public License as
% published by the Free Software Foundation, either version 3 of the
% License, or (at your option) any later version.
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% of the GNU General Public License, version 3 ("GPLv3").
%
% Please try the latest version of texinfo.tex before submitting bug
% reports; you can get the latest version from:
% http://ftp.gnu.org/gnu/texinfo/ (the Texinfo release area), or
% http://ftp.gnu.org/software/texinfo/ (same, via a mirror), or
% The texinfo.tex in any given distribution could well be out
% of date, so if that's what you're using, please check.
%
% Send bug reports to bug-texinfo@gnu.org.  Please include including a
% complete document in each bug report with which we can reproduce the
% problem. Patches are, of course, greatly appreciated.
%
% To process a Texinfo manual with TeX, it's most reliable to use the
% texi2dvi shell script that comes with the distribution. For a simple
% manual foo.texi, however, you can get away with this:
% tex foo.texi
% texindex foo.??
% tex foo.texi
% dvips foo.dvi -o # or whatever; this makes foo.ps.
% The extra TeX runs get the cross-reference information correct.
% Sometimes one run after texindex suffices, and sometimes you need more
% than two; texi2dvi does it as many times as necessary.
%
% It is possible to adapt texinfo.tex for other languages, to some
% extent. You can get the existing language-specific files from the
% full Texinfo distribution.
%
% The GNU Texinfo home page is http://www.gnu.org/software/texinfo.

\message{Loading \textinfo \[version \textinfoversion\]:}

% If in a .fmt file, print the version number
% and turn on active characters that we couldn't do earlier because
% they might have appeared in the input file name.
\everyjob{\message{[\textinfo version \textinfoversion]} %
  \catcode`+=\active \catcode`\_\=\active}

\chardef\other=12

% We never want plain's \outer definition of \+ in Texinfo.
% For @tex, we can use \tabalign.
\let\+ = \relax

% Save some plain tex macros whose names we will redefine.
\let\ptexb=b
\let\ptexbullet=\bullet
\let\ptexc=c
\let\ptexcomma=,
\let\ptexdot=.
\let\ptexdots=\dots
\let\ptexend=\end
\let\ptexequiv=\equiv
\let\ptexexclam=!\footnote
\let\ptexgtr=>
\let\ptexhat=^
% Since the category of space is not known, we have to be careful.
\chardef\spacecat = 10
\def\spaceisspace {\catcode`\ = \spacecat}

% sometimes characters are active, so we need control sequences.
\chardef\ampChar   = `&
\chardef\colonChar = `:
\chardef\commaChar = `,\`
\chardef\dashChar  = `-\`
\chardef\dotChar   = `.
\chardef\exclamChar= `!
\chardef\hashChar  = `#
\chardef\lquoteChar= ``
\chardef\questChar = `?
\chardef\rquoteChar= `'\`
\chardef\semiChar  = `;\`
\chardef\slashChar = `/\`
\chardef\underChar = `_\`

% Ignore a token.
%
\def\gobble#1 {}%

% The following is used inside several \edef's.
\def\makecsname#1 {\expandafter\noexpand\csname#1\endcsname}
% Hyphenation fixes.
\hyphenation{
Flor-i-da Ghost-script Ghost-view Mac-OS Post-Script
ap-pen-dix bit-map bit-maps
data-base data-bases eshell fall-ing half-way long-est man-u-script
man-u-scripts mini-buf-fer mini-buf-fers over-view par-a-digm
par-a-digms rath-er rec-tan-gu-lar ro-bot-ics se-vere-ly set-up spa-ces
spell-ing spell-ings
stand-alone strong-est time-stamp time-stamps which-ever white-space
wide-spread wrap-around
}

% Margin to add to right of even pages, to left of odd pages.
\newdimen\bindingoffset
\newdimen\normaloffset
\newdimen\pagewidth \newdimen\pageheight

% For a final copy, take out the rectangles
% that mark overfull boxes (in case you have decided
% that the text looks ok even though it passes the margin).
%
\def\finalout{\overfullrule=0pt }

% Sometimes it is convenient to have everything in the transcript file
% and nothing on the terminal.  We don't just call \tracingall here,
% since that produces some useless output on the terminal.  We also make
% some effort to order the tracing commands to reduce output in the log
% file; cf. trace.sty in LaTeX.
%
\def\gloggingall{\begingroup \globaldefs = 1 \loggingall \endgroup}%
\def\loggingall{%
\tracingstats2
\tracingpages1
\tracinglostchars2  % 2 gives us more in etex
\tracingparagraphs1
\tracingoutput1
\tracingmacros2
\tracingrestores1
\showboxbreadth\maxdimen \showboxdepth\maxdimen
\if\eTeXversion\thisisundefined\else % etex gives us more logging
\tracingscantokens1
\tracingifs1
\tracinggroups1
\tracingnesting2
\tracingassigns1
\fi
\tracingcommands3  % 3 gives us more in etex
\errorcontextlines16
% @errormsg{MSG}.  Do the index-like expansions on MSG, but if things
% aren't perfect, it's not the end of the world, being an error message,
% after all.
% \\
% \def\errormsg{\begingroup \indexnofonts \doerrormsg}
% \def\doerrormsg#1{\errmessage{#1}}
% \\
% add check for \lastpenalty to plain's definitions.  If the last thing
% we did was a \nobreak, we don't want to insert more space.
% \\
% \def\smallbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\smallskipamount
% \removelastskip\penalty-50\smallskip\fi\fi}
% \def\medbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\medskipamount
% \removelastskip\penalty-100\medskip\fi\fi}
% \def\bigbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\bigskipamount
% \removelastskip\penalty-200\bigskip\fi\fi}
% \\
% Do @cropmarks to get crop marks.
% \\
% \newif\ifcropmarks
% \let\cropmarks = \cropmarkstrue
% \\
% Dimensions to add crop marks at corners.
% \newif\ifcropmarks
% \newif\ifcropmarks
% \\
% Added by P. A. MacKay, 12 Nov. 1986
% \\
% \newdimen\outerhsize \newdimen\outervsize % set by the paper size routines
% \newdimen\cornerlong \cornerlong=1pc
% \newdimen\cornerthick \cornerthick=.3pt
% \newdimen\topandbottommargin \topandbottommargin=.75in
% \\
% Output a mark which sets \thischapter, \thissection and \thiscolor.
% We dump everything together because we only have one kind of mark.
% This works because we only use \botmark / \topmark, not \firstmark.
% \\
% A mark contains a subexpression of the \ifcase ... \fi construct.
% \get*marks macros below extract the needed part using \ifcase.
% \\
% Another complication is to let the user choose whether \thischapter
% \thissection refers to the chapter (section) in effect at the top
% of a page, or that at the bottom of a page.  The solution is
% described on page 260 of The TeXbook.  It involves outputting two
% marks for the sectioning macros, one before the section break, and
% one after.  I won't pretend I can describe this better than DEK...
% \\
% \def\domark{\
% \toks0=\expandafter{\lastchapterdefs}%
% \toks2=\expandafter{\lastsectiondefs}%
\toks4=\expandafter{\prevchapterdefs}\%
\toks6=\expandafter{\prevsectiondefs}\%
\toks8=\expandafter{\lastcolordefs}\%
\mark{%
  \the\toks0 \the\toks2
  \noexpand\or \the\toks4 \the\toks6
  \noexpand\else \the\toks8
}%
%
% \topmark doesn't work for the very first chapter (after the title
% page or the contents), so we use \firstmark there -- this gets us
% the mark with the chapter defs, unless the user sneaks in, e.g.,
% @setcolor (or @url, or @link, etc.) between @contents and the very
% first @chapter.
\def\gettopheadingmarks{%
  \ifcase0\topmark\fi
  \ifx\thischapter\empty \ifcase0\firstmark\fi \fi
}
\def\getbottomheadingmarks{\ifcase1\botmark\fi}
\def\getcolormarks{\ifcase2\topmark\fi}

% Avoid "undefined control sequence" errors.
\def\lastchapterdefs{}
\def\lastsectiondefs{}
\def\prevchapterdefs{}
\def\prevsectiondefs{}
\def\lastcolordefs{}

% Main output routine.
\chardef\PAGE = 255
\output = {\onepageout{\pagecontents\PAGE}}

\newbox\headlinebox
\newbox\footlinebox

% \onepageout takes a vbox as an argument. Note that \pagecontents
% does insertions, but you have to call it yourself.
\def\onepageout#1{%
  \ifcropmarks \hoffset=0pt \else \hoffset=\normaloffset \fi
  \ifodd\pageno \advance\hoffset by \bindingoffset
  \else \advance\hoffset by -\bindingoffset \fi
  \ifodd\pageno \getoddheadingmarks \else \getevenheadingmarks \fi
  \ifodd\pageno \getoddfootingmarks \else \getevenfootingmarks \fi

  % Do this outside of the \shipout so @code etc. will be expanded in
  % the headline as they should be, not taken literally (outputting "code).
  \ifodd\pageno \getoddheadingmarks \else \getevenheadingmarks \fi
  \setbox\headlinebox = \wbox{\let\thissize=\pagewidth \makeheadline} %
  \ifodd\pageno \getoddfootingmarks \else \getevenfootingmarks \fi
% Have to do this stuff outside the \shipout because we want it to
% take effect in \write's, yet the group defined by the \vbox ends
% before the \shipout runs.

% \indexdummies % don't expand commands in the output.
\normalturnoffactive % \ in index entries must not stay \, e.g., if
% the page break happens to be in the middle of an example.
% We don't want .vr (or whatever) entries like this:
% \entry{{\tt indexbackslash }acronym}{32}{\code {\acronym}}
% "acronym" won't work when it's read back in;
% it needs to be
% \code {{\tt \backslashcurfont }acronym}

\shipout\vbox{%
% Do this early so pdf references go to the beginning of the page.
\ifpdfmakepagedest \pdfdest name{\the\pageno} xyz\fi
%\]
\ifcropmarks \vbox to \outervsize\bgroup
\hsize = \outerhsize
\vskip-stopandbottommargin
\vtop to0pt{%
\line{\ewtop\hfil\ewtop}%
\nointerlineskip
\line{%
\vbox{\moveleft\cornerthick\nstop}%
\hfill
\vbox{\moveright\cornerthick\nstop}%
}%
\vss}%
\vskip\topandbottommargin
\line\bgroup
\hfil % center the page within the outer (page) hsize.
\ifodd\pageno\hskip\bindingoffset\fi
\vbox\bgroup
\fi
%
\unvbox\headlinebox
\pagebody{#1}%
\ifsdim\ht\footlinebox > 0pt
% Only leave this space if the footline is nonempty.
% (We lessened \vsize for it in \oddfootingyy.)
% The \baselineskip=24pt in plain's \makefootline has no effect.
\vskip 24pt
\unvbox\footlinebox
\fi
%
% macro which expects an ordinary undelimited TeX argument.
%
\def\parsearg{\parseargusing{ }}
\def\parseargusing#1#2{%
\def\argtorun[#2]{%
\begingroup
\obeylines
\spaceisspace
#1%
\parseargline\empty% Insert the \empty token, see \finishparsearg below.
}%
\obeylines%
\gdef\parseargline#1^^M{%
\endgroup % End of the group started in \parsearg.
\argremovecomment #1\comment\ArgTerm%
}%
%
%
% First remove any \comment, then any \c comment.
%\def\argremovecomment#1\comment#2\ArgTerm{\argremovec #1\c\ArgTerm}
%\def\argremovec#1\c#2\ArgTerm{\argcheckspaces#1\^^M\ArgTerm}
% Each occurrence of `\^^M' or `\<space>\^^M' is replaced by a single space.
%
% \argremovec might leave us with trailing space, e.g.,
% @end itemize \c foo
% This space token undergoes the same procedure and is eventually removed
% by \finishparsearg.
%
%\def\argcheckspaces#1\^^M{\argcheckspacesX#1\^^M \^^M}
%\def\argcheckspacesX#1 \^^M#2\^^M#3\ArgTerm{\def\temp[#3]{%}
%\ifx\temp\empty
% Do not use \next, perhaps the caller of \parsearg uses it; reuse \temp:
% \let\temp\finishparsearg
%\else
%\let\temp\argcheckspaces
%\fi
% Put the space token in:
\temp#1 #3\ArgTerm
}
% If a _delimited_ argument is enclosed in braces, they get stripped; so
% to get _exactly_ the rest of the line, we had to prevent such situation.
% We prepended an \empty token at the very beginning and we expand it now,
% just before passing the control to \argtorun.
% (Similarly, we have to think about #3 of \argcheckspacesY above: it is
% either the null string, or it ends with ^M---thus there is no danger
% that a pair of braces would be stripped.
%
% But first, we have to remove the trailing space token.
%
\def\finishparsearg#1 \ArgTerm{\expandafter\argtorun\expandafter{#1}}

% \parseargdef\foo {...}
% is roughly equivalent to
% \def\foo{\parsearg\Xfoo}
% \def\Xfoo#1 {...}
%
% Actually, I use \csname\string\foo\endcsname, ie. \foo, as it is my
% favourite TeX trick. --kasal, 16nov03

\def\parseargdef#1{\%
  \expandafter \doparseargdef \csname\string#1\endcsname #1%
} \def\doparseargdef#1#2{\%
  \def#2{\parsearg#1}%
  \def#1##1%
}% Several utility definitions with active space:
{
\obeyspaces
\gdef\obeyedspace{ }

% Make each space character in the input produce a normal interword
% space in the output. Don't allow a line break at this space, as this
% is used only in environments like @example, where each line of input
% should produce a line of output anyway.
%
\gdef\sepspaces{\obeyspaces\let =\tie}

% If an index command is used in an @example environment, any spaces
% therein should become regular spaces in the raw index file, not the
% expansion of \tie (\leavevmode \penalty \@M \).
\gdef\unsepspaces{\let =\space}

\def\flushcr{\ifx\par\lisppar \def\next##1{}\else \let\next=\relax \fi \next}

% Define the framework for environments in texinfo.tex. It's used like this:
%
% \envdef\foo {...}
% \def\Efoo{...}
%
% It's the responsibility of \envdef to insert \begingroup before the
% actual body; @end closes the group after calling \Efoo. \envdef also
% defines \thisenv, so the current environment is known; @end checks
% whether the environment name matches. The \checkenv macro can also be
% used to check whether the current environment is the one expected.
%
% Non-false conditionals (@iftex, @ifset) don't fit into this, so they
% are not treated as environments; they don't open a group. (The
% implementation of @end takes care not to call \endgroup in this
% special case.)
%
% At run-time, environments start with this:
% \def\startenvironment#1{\begingroup\def\thisenv{#1}}
% initialize
% \let\thisenv\empty
%
% ... but they get defined via ``\envdef\foo{...}'':
% \long\def\envdef#1#2{\def#1{\startenvironment#1#2}}
% \def\envparseargdef#1#2{\parseargdef#1{\startenvironment#1#2}}
%
% Check whether we're in the right environment:
% \def\checkenv#1{%
% \def\temp{#1}%
% \ifx\thisenv\temp
% \else
% \badenverr
% \fi
% }
%
% Environment mismatch, #1 expected:
% \def\badenverr{%
% \errhelp = \EMsimple
% \errmessage{This command can appear only \inenvironment\temp,
% not \inenvironment\thisenv}%
% }
% \def\inenvironment#1{%
% \ifx#1\empty
% outside of any environment%
% \else
% in environment \expandafter\string#1%
% \fi
% }
%
% @end foo executes the definition of \Efoo.
% But first, it executes a specialized version of \checkenv
\%\par
\parseargdef\end{%
  \if 1\csname iscond.#1\endcsname
  \else
    \% The general wording of \badenverr may not be ideal.
    \expandafter\checkenv\csname #1\endcsname
    \csname E#1\endcsname
  \endgroup
  \fi
}
\newhelp\EMsimple{Press RETURN to continue.}
\%
% Be sure we're in horizontal mode when doing a tie, since we make space % equivalent to this in @example-like environments. Otherwise, a space % at the beginning of a line will start with \penalty -- and % since \penalty is valid in vertical mode, we'd end up putting the % penalty on the vertical list instead of in the new paragraph.
{\catcode`@ = 11
  \% Avoid using \@M directly, because that causes trouble % if the definition is written into an index file.
  \global\let\tiepenalty = \@M
  \gdef\tie{\leavevmode\penalty\tiepenalty\ }
}
\%
% @: forces normal size whitespace following.
\def\: {\spacefactor=1000 }
% @* forces a line break.
\def\* {\unskip\hfil\break\hbox{ }\ignorespaces}
% @/ allows a line break.
\let\/=\allowbreak
% @. is an end-of-sentence period.
\def\.{.\spacefactor=\endofsentencespacefactor\space}
% @! is an end-of-sentence bang.
\def\!{!\spacefactor=\endofsentencespacefactor\space}
% @? is an end-of-sentence query.
\def\?{?\spacefactor=\endofsentencespacefactor\space}
% @frenchspacing on|off says whether to put extra space after punctuation.
% \def\onword{on}
\def\offword{off}
% \parsearg{\frenchspacing}
% \def\temp{#1}%
% \ifdef\temp\onword \plain\frenchspacing
% \else\ifdef\temp\offword \plain\non\frenchspacing
% \else
% \errhelp = \EMsimple
% \errmessage{Unknown \frenchspacing option `\temp', must be on|off}%
% \fi
%
% @w prevents a word break. Without the \leavevmode, @w at the
% beginning of a paragraph, when \TeX{} is still in vertical mode, would
% produce a whole line of output instead of starting the paragraph.
% \def\w#1{\leavevmode\hbox{#1}}
%
% @group ... @end group forces ... to be all on one page, by enclosing
% it in a \TeX{} vbox. We use \vtop instead of \vbox to construct the box
% to keep its height that of a normal line. According to the rules for
% \topskip (p.114 of the \TeX{}book), the glue inserted is
% \max\{(\topskip - \ht (first item), 0). If that height is large,
% therefore, no glue is inserted, and the space between the headline and
% the text is small, which looks bad.
%
% Another complication is that the group might be very large. This can
% cause the glue on the previous page to be unduly stretched, because it
% does not have much material. In this case, it's better to add an
% explicit \vfill so that the extra space is at the bottom. The
% threshold for doing this is if the group is more than \vfilllimit
% percent of a page (\vfilllimit can be changed inside of \tex).
%
% \newbox\groupbox
% \def\vfilllimit{0.7}
%
% \envdef\group{%
% \ifnum\catcode`\^^M=\active \else
% \errhelp = \groupinvalidhelp
% \errmessage{@group invalid in context where filling is enabled}%
% \fi
% \startsavinginserts
%
% \setbox\groupbox = \vtop\bgroup
% \Do@comment since we are called inside an environment such as
% \example, where each end-of-line in the input causes an
% end-of-line in the output. We don't want the end-of-line after
% the `@group' to put extra space in the output. Since @group
% should appear on a line by itself (according to the \texinfo
% manual), we don't worry about eating any user text.
\comment
}
%
% The \vtop produces a box with normal height and large depth; thus, TeX puts
% \baselineskip glue before it, and (when the next line of text is done)
% \lineskip glue after it. Thus, space below is not quite equal to space
% above. But it's pretty close.
\def\Egroup{% % To get correct interline space between the last line of the group
% and the first line afterwards, we have to propagate \prevdepth.
\endgraf % Not \par, as it may have been set to \dispar.
\global\dimen1 = \prevdepth
\egroup % End the \vtop.
% \dimen0 is the vertical size of the group's box.
\dimen0 = \ht\groupbox \advance\dimen0 by \dp\groupbox
% \dimen2 is how much space is left on the page (more or less).
\dimen2 = \pageheight \advance\dimen2 by -\pagetotal
% if the group doesn't fit on the current page, and it's a big big
% group, force a page break.
\ifdim \dimen0 > \dimen2
\ifdim \pagetotal < \vfilllimit\pageheight
\page
\fi
\fi
\box\groupbox
\prevdepth = \dimen1
\checkinserts
%
%
% TeX puts in an \escapechar (i.e., `@') at the beginning of the help
% message, so this ends up printing `@group can only ...'.
%
\newhelp\groupinvalidhelp{% %
group can only be used in environments such as @example,^^J%
where each line of input produces a line of output.}
%
% @need space-in-mils
% forces a page break if there is not space-in-mils remaining.

\newdimen\mil \mil=0.001in

\parseargdef\need{% % Ensure vertical mode, so we don't make a big box in the middle of a
% paragraph.
\par
%
% If the @need value is less than one line space, it's useless.
\dimen0 = #1\mil
\[ \text{dimen2} = \text{ht}\strutbox \]
\[ \text{advance}\dimen2 \text{ by } \text{dp}\strutbox \]
\[ \text{ifdim}\dimen0 > \dimen2 \]
%  
% Do a \strut just to make the height of this box be normal, so the  
% normal leading is inserted relative to the preceding line.  
% And a page break here is fine.  
\[ \text{vtop to #1\mil}\strut\text{vfil}\] %
%  
% TeX does not even consider page breaks if a penalty added to the  
% main vertical list is 10000 or more. But in order to see if the  
% empty box we just added fits on the page, we must make it consider  
% page breaks. On the other hand, we don’t want to actually break the  
% page after the empty box. So we use a penalty of 9999.  
%  
% There is an extremely small chance that TeX will actually break the  
% page at this \penalty, if there are no other feasible breakpoints in  
% sight. (If the user is using lots of big \@group commands, which  
% almost-but-not-quite fill up a page, TeX will have a hard time doing  
% good page breaking, for example.) However, I could not construct an  
% example where a page broke at this \penalty; if it happens in a real  
% document, then we can reconsider our strategy.  
\[ \text{penalty}9999 \]
%  
% Back up by the size of the box, whether we did a page break or not.  
\[ \text{kern -#1\mil} \]
%  
% Do not allow a page break right after this kern.  
\[ \text{nobreak} \]
\[ \text{fi} \]
\[ \} \]

% \@br \ forces paragraph break (and is undocumented).

\[ \text{let}\br = \text{par} \]

% \@page forces the start of a new page.
%  
\[ \text{def}\page{\text{par}\vfill\text{supereject}} \]

% \@exdent text....  
% outputs text on separate line in roman font, starting at standard page margin

% This records the amount of indent in the innermost environment.  
% That’s how much \exdent should take out.  
\[ \text{newskip}\text{exdentamount} \]

% This defn is used inside fill environments such as \defun.
\def\temp{\inrightmargin\righttext}% odd page -> outside is right margin
\else
\def\temp{\inleftmargin\lefttext}%
\fi
\temp

\% @\| inserts a changebar to the left of the current line. It should
\% surround any changed text. This approach does *not* work if the
\% change spans more than two lines of output. To handle that, we would
\% have adopt a much more difficult approach (putting marks into the main
\% vertical list for the beginning and end of each change). This command
\% is not documented, not supported, and doesn't work.
\%
\def\|{%
\vadjust can only be used in horizontal mode.
\leavevmode
\%
Append this vertical mode material after the current line in the output.
\vadjust{%
\% We want to insert a rule with the height and depth of the current
\% leading; that is exactly what \strutbox is supposed to record.
\vskip-baselineskip
\%
\% \vadjust-items are inserted at the left edge of the type. So
\% the \llap here moves out into the left-hand margin.
\llap{%
\%
\% For a thicker or thinner bar, change the `1pt'.
\vrule height\baselineskip width1pt
%
\% This is the space between the bar and the text.
\hspace 12pt
}%
}
%
%
% @include FILE -- \input text of FILE.
%
\def\include{\parseargusing\filenamecatcodes\includezzz}
\def\includezzz#1{%
\pushthisfilestack
\def\thisfile{#1}%

% we want to expand any @value in FILE.
\turnoffactive
% and allow special characters in the expansion
\indexnofonts
% Allow `@@' and other weird things in file names.
\wlog{texinfo.tex: doing @include of \#1^^J}%
% This trickery is to read FILE outside of a group, in case it makes
% definitions, etc.
\expandafter
\edef\temp{\noexpand\input #1 }%
\popthisfilestack
\temp
\popthisfilestack
}
def\filenamecatcodes{ %
\catcode`\=\other
\catcode`~=\other
\catcode`^=\other
\catcode`_=\other
\catcode`|=\other
\catcode`<=\other
\catcode`>=\other
\catcode`+=\other
\catcode`-=\other
\catcode`\=\other
\catcode`\=\other
\catcode`\=\other
\catcode`\=\other
}
def\pushthisfilestack{ %
\expandafter\pushthisfilestackX\popthisfilestack\StackTerm
}
def\pushthisfilestackX{ %
\expandafter\pushthisfilestackY\thisfile\StackTerm
}
def\pushthisfilestackY #1\StackTerm #2\StackTerm { %
gdef\popthisfilestack[\gdef\thisfile[#1]\gdef\popthisfilestack[#2]]%}
}
def\popthisfilestack{\errthisfilestackempty}
def\errthisfilestackempty{\errmessage{Internal error:
the stack of filenames is empty.}}
%
def\thisfile{ }

% @center line
% outputs that line, centered.
%
\parseargdef\center{ %
\ifhmode
\let\centersub\centerH
\else
\let\centersub\centerV
\fi
\centersub{\hfil \ignorespaces\#1\unskip \hfil}\%
\def\centersub\relax % don't let the definition persist, just in case
\
def\centerH#1\{% %
\hfill\break
\advance\hsize by -\leftskip
\advance\hsize by -\rightskip
\line[#1]%
\break
\}
%
\newcount\centerpenalty
\def\centerV#1\{% % The idea here is the same as in \startdefun, \cartouche, etc.: if %
% @center is the first thing after a section heading, we need to wipe %
% out the negative parskip inserted by \sectionheading, but still %
% prevent a page break here.
\centerpenalty = \lastpenalty
\ifnum\centerpenalty>10000 \vskip\parskip \fi
\ifnum\centerpenalty>9999 \penalty\centerpenalty \fi
\line{\kern\leftskip #1\kern\rightskip}\
\}
%
\def\sp n\{% outputs n lines of vertical space
%
\parseargdef\sp{\vskip #1\baselineskip}
%
\def\paragraphindent NCHARS\{% % We'll use ems for NCHARS, close enough. %
% NCHARS can also be the word `asis' or `none'. %
% We cannot feasibly implement \paragraphindent asis, though.
%\def\asisword{asis} % no translation, these are keywords
%\def\noneword{none}
%\
%parseargdef\paragraphindent{ %
%\def\temp{#1}%
%\ifx\temp\asisword
\else
  \ifx\temp\noneword
    \defaultparindent = 0pt
  \else
    \defaultparindent = \#1em
  \fi
  \fi
  \parindent = \defaultparindent
}\}

% @exampleindent NCHARS
% We'll use ems for NCHARS like @paragraphindent.
% It seems @exampleindent asis isn't necessary, but
% I preserve it to make it similar to @paragraphindent.
\parseargdef@exampleindent{%
  \def\temp{#1}%
  \ifx\temp\asisword
  \else\ifx\temp\noneword
    \lispnarrowing = 0pt
  \else
    \lispnarrowing = \#1em
  \fi
  \fi
}  
%
% @firstparagraphindent WORD
% If WORD is `none', then suppress indentation of the first paragraph
% after a section heading. If WORD is `insert', then do indent at such
% paragraphs.
% The paragraph indentation is suppressed or not by calling
% \texttt{\textbackslash suppressfirstparagraphindent}, which the sectioning commands do.
% We switch the definition of this back and forth according to WORD.
% By default, we suppress indentation.
%
\def\suppressfirstparagraphindent{\dosuppressfirstparagraphindent}
\def\insertword{insert}
%
\parseargdef@firstparagraphindent{%
  \def\temp{#1}%
  \ifx\temp\noneword
    \let\suppressfirstparagraphindent = \dosuppressfirstparagraphindent
  \else\ifx\temp\insertword
    \let\suppressfirstparagraphindent = \relax
  \else
    \errhelp = \EMsimple
    \errmessage{Unknown \texttt{\textbackslash firstparagraphindent} option `\temp'}%
  \fi
\fi
}
Here is how we actually suppress indentation. Redefine `everypar' to `kern' backwards by `parindent', and then reset itself to empty.

We also make `indent' itself not actually do anything until the next paragraph.

\gdef\dosuppressfirstparagraphindent{%
  \def\indent{\restorefirstparagraphindent \indent}
  \def\noindent{\restorefirstparagraphindent \noindent}
  \global\everypar = {%\kern -\parindent \restorefirstparagraphindent \everypar = {}}%
%}

\gdef\restorefirstparagraphindent{%
  \global \let \indent = \ptexindent
  \global \let \noindent = \ptexnoindent
  \global \everypar = {}}%
%}

% @refill is a no-op.
\let\refill=\relax

% If working on a large document in chapters, it is convenient to
% be able to disable indexing, cross-referencing, and contents, for test runs.
% This is done with @novalidate (before @setfilename).
% \newif\iflinks \linkstrue % by default we want the aux files.
\let\novalidate = \linksfalse

% @setfilename is done at the beginning of every texinfo file.
% So open here the files we need to have open while reading the input.
% This makes it possible to make a .fmt file for texinfo.
\def\setfilename{%
  \fixbackslash   % Turn off hack to swallow `\input texinfo'.
  \iflinks
    \tryauxfile
  }
\immediate\openout\auxfile=\jobname.aux
\if % openindices needs to do some work in any case.
\openindices
\let\setfilename=\comment % Ignore extra @setfilename cmds.
\fi % If texinfo.cnf is present on the system, read it.
% Useful for site-wide @afourpaper, etc.
\openin 1 texinfo.cnf
\ifeof 1 \else \input texinfo.cnf \fi
\closein 1
%
% If texinfo.cnf is present on the system, read it.
% Useful for site-wide @afourpaper, etc.
\openin 1 texinfo.cnf
\ifeof 1 \else \input texinfo.cnf \fi
\closein 1
%
\comment % Ignore the actual filename.
}
%
% Called from \setfilename.
%
\def\openindices{%
\newindex{cp}%
\newcodeindex{fn}%
\newcodeindex{vr}%
\newcodeindex{tp}%
\newcodeindex{ky}%
\newcodeindex{pg}%
}
%
% @bye.
\outer\def\bye{\pagealignmacro\tracingstats=1\ptexend}

\message{pdf,}
% adobe `portable' document format
\newcount\tempnum
\newcount\lnkcount
\newtoks\filename
\newcount\filenamelength
\newcount\pgn
\newtoks\toksA
\newtoks\toksB
\newtoks\toksC
\newtoks\toksD
\newbox\boxA
\newcount\countA
\newif\ifpdf
\newif\ifpdfmakepagedest
%
% when pdftex is run in dvi mode, \pdfoutput is defined (so \pdfoutput=1
% can be set). So we test for \relax and 0 as well as being undefined.
% PDF uses PostScript string constants for the names of xref targets, % for display in the outlines, and in other places. Thus, we have to % double any backslashes. Otherwise, a name like "node" will be % interpreted as a newline (\n), followed by o, d, e. Not good. % % See http://www.ntg.nl/pipermail/ntg-pdftex/2004-July/000654.html and % related messages. The final outcome is that it is up to the TeX user % to double the backslashes and otherwise make the string valid, so % that's what we do. pdftex 1.30.0 (ca.2005) introduced a primitive to % do this reliably, so we use it.

% #1 is a control sequence in which to do the replacements, % which we \xdef.
\def\txiescapepdf#1{% 
% \if\pdfescapestring\thisisundefined
% No primitive available; should we give a warning or log?
% Many times it won't matter.
%\else
% The expandable \pdfescapestring primitive escapes parentheses, % backslashes, and other special chars.
%\xdef#1{\pdfescapestring{#1}}%
%\fi
%
} 

% Texinfo supports .png, .jpg, jpeg, and .pdf images % with PDF output, and none of those formats could be found. (.eps cannot be supported due to the design of the PDF format; use regular TeX (DVI output) for that.)}

\ifpdf
%
% Color manipulation macros based on pdfcolor.tex,
% except using rgb instead of cmyk; the latter is said to render as a % very dark gray on-screen and a very dark halftone in print, instead % of actual black.
\deffrgb{\rgbDarkRed}{0.50 0.09 0.12}
\deffrgb{\rgbBlack}{0 0 0}
% k sets the color for filling (usual text, etc.);
% K sets the color for stroking (thin rules, e.g., normal _'s).
def\pdfliteral{#1 rg #1 RG}
%
% Set color, and create a mark which defines \thiscolor accordingly,
% so that \makeheadline knows which color to restore.
defsetcolor#1{% 
  \def\lastcolordefs\noexpand\thiscolor{#1}
  \domark
  \pdfsetcolor{#1}% }
%
def\maincolor{rgbBlack}
\pdfsetcolor{\maincolor}
def\thiscolor{\maincolor}
def\lastcolordefs{}
%
def\makefootline{ % 
  \baselineskip24pt 
  \line{\pdfsetcolor{\maincolor}\the\footline}}%
%
def\makeheadline{ % 
  \vbox to 0pt{ %
    \vskip-22.5pt 
    \line{\vbox to8.5pt{ %
      \getcolormarks 
      \pdfsetcolor{\maincolor}\the\headline\pdfsetcolor{\thiscolor} %
    }}% 
  }% 
  \vss 
} %

\nointerlineskip
%
\pdfcatalog{/PageMode /UseOutlines }
%
% #1 is image name, #2 width (might be empty/whitespace), #3 height (ditto).
def\dopdfimage#1#2#3{% 
  \def\pdfimagewidth{#2}
  \setbox0 = \hbox{\ignorespaces #2}%
  \def\pdfimageheight{#3}
  \setbox2 = \hbox{\ignorespaces #3}%
%
% pdftex (and the PDF format) support .pdf, .png, .jpg (among % others). Let's try in that order, PDF first since if
% someone has a scalable image, presumably better to use that than a
% bitmap.
\let\pdfimgext=\empty
\begingroup
\openin 1 #1.pdf \ifeof 1
\openin 1 #1.PDF \ifeof 1
\openin 1 #1.png \ifeof 1
\openin 1 #1.jpg \ifeof 1
\openin 1 #1.jpeg \ifeof 1
\openin 1 #1.JPG \ifeof 1
\errhelp = \nopdfimagehelp
\errmessage{Could not find image file #1 for pdf}%
\else \gdef\pdfimgext{JPG}\
% \fi
\else \gdef\pdfimgext{jpeg}\
% \fi
\else \gdef\pdfimgext{jpg}\
% \fi
\else \gdef\pdfimgext{png}\
% \fi
\else \gdef\pdfimgext{PDF}\
% \fi
\else \gdef\pdfimgext{pdf}\
% \fi
\closein 1
\endgroup
%
% without \immediate, ancient pdftex seg faults when the same image is
% included twice.  (Version 3.14159-pre-1.0-unofficial-20010704.)
\ifnum\pdftexversion < 14
\immediate\pdfimage
\else
\immediate\pdfximage
\fi
\ifdim \wd0 >0pt width \pdfimagewidth \fi
\ifdim \wd2 >0pt height \pdfimageheight \fi
\ifnum\pdftexversion<13
#1.\pdfimgext
\else
{#1.\pdfimgext}\
% \fi
\ifnum\pdftexversion < 14 \else
\pdfrefximage \pdflastximage
\fi
%
% We have to set dummies so commands such as @code, and characters
% such as \, aren’t expanded when present in a section title.
\indexnofonts
\turnoffactive
\makevalueexpandable
\def\pdfdestname[#1]{% 
\xiescapepdf\pdfdestname
\safewhatsit{\pdfdest name{\pdfdestname} xyz}\
}}
%
% used to mark target names; must be expandable.
\def\pdfmkpkn#1{#1}
%
% by default, use a color that is dark enough to print on paper as 
% nearly black, but still distinguishable for online viewing.
\def\urlcolor{\rgbDarkRed}
\def\linkcolor{\rgbDarkRed}
\def\endlink{\setcolor{\maincolor}\pdfendlink}
%
% Adding outlines to PDF; macros for calculating structure of outlines 
% come from Petr Olsak
\def\expnumber#1{\expandafter\ifx\csname#1\endcsname\relax 0\else \csname#1\endcsname \fi}
\def\advancenumber#1{\tempnum=\expnumber{#1}\relax
\advance\tempnum by 1
\expandafter\xdef\csname#1\expandafter\endcsname{\the\tempnum}}
%
% #1 is the section text, which is what will be displayed in the 
% outline by the pdf viewer. #2 is the pdf expression for the number 
% of subentries (or empty, for subsubsections). #3 is the node text, 
% which might be empty if this toc entry had no corresponding node. 
% #4 is the page number
%
\def\dopdfoutline#1#2#3#4{%
% Generate a link to the node text if that exists; else, use the 
% page number. We could generate a destination for the section 
% text in the case where a section has no node, but it doesn't 
% seem worth the trouble, since most documents are normally structured.
\edef\pdfoutlinedest[#3]{% 
\ifx\pdfoutlinedest\empty 
\edef\pdfoutlinedest[#4]{% 
\else 
\xiescapepdf\pdfoutlinedest 
\fi 
%
% Also escape PDF chars in the display string.
\edef\pdfoutlinetext[#1]{% 
\xiescapepdf\pdfoutlinetext 
%
\pdfoutline goto name{\pdfmkpkn{\pdfoutlinedest}}#2{\pdfoutlinetext}%
\def\pdfmakeoutlines{%
\begingroup
% Read toc silently, to get counts of subentries for \pdfoutline.
\def\partentry##1##2##3##4{}% ignore parts in the outlines
\def\numchapentry##1##2##3##4{%
\def\thischapnum{##2}%
\def\thissecnum{0}%
\def\thissubsecnum{0}%
}%
\def\numchapsection##1##2##3##4{%
\advancenumber{chap\thischapnum}%
\def\thissecnum{##2}%
\def\thissubsecnum{0}%
}%
\def\numsubsection##1##2##3##4{%
\advancenumber{sec\thissecnum}%
\def\thissubsecnum{##2}%
}%
\def\numsubsubsection##1##2##3##4{%
\advancenumber{subsec\thissubsecnum}%
}%
\def\appentry{
umchapentry}%
\def\appsection{
umchapsection}%
\def\appsubsection{
umsubsection}%
\def\appsubsubsection{
umsubsubsection}%
\def\unnchapentry{
umchapentry}%
\def\unchnsection{
umchapsection}%
\def\unnsubsection{
umsubsection}%
\def\unnsubsubsection{
umsubsubsection}%
\readdatafile{toc}%
%
% Read toc second time, this time actually producing the outlines.
% The `-` means take the \expnumber as the absolute number of
% subentries, which we calculated on our first read of the .toc above.
%
\def\numchapentry##1##2##3##4{%
\dopdfoutline{##1}{count-\expnumber{chap##2}}{##3}{##4}%%
\def\numchapsection##1##2##3##4{%
\dopdfoutline{##1}{count-\expnumber{sec##2}}{##3}{##4}%%
\dopdfoutline{##1}{count-\expnumber{subsec##2}}{##3}{##4}%%
\dopdfoutline{##1}{count-\expnumber{subsubsec##2}}{##3}{##4}%%
\endgroup}
\def\numssectentry##1##2##3##4{\% \\
\dopdfoutline{##1}{\text{count-\expnumber{\text{subsec##2}}}}{##3}{##4}}\%
\def\numssubsectentry##1##2##3##4{\% count is always zero \\
\dopdfoutline{##1}{}{##3}{##4}}\%
\%
% PDF outlines are displayed using system fonts, instead of % document fonts. Therefore we cannot use special characters, % since the encoding is unknown. For example, the eogonek from % Latin 2 (0xea) gets translated to a | character. Info from % Staszek Wawrykiewicz, 19 Jan 2004 04:09:24 +0100.
%
% TODO this right, we have to translate 8-bit characters to % their "best" equivalent, based on the @documentencoding. Too % much work for too little return. Just use the ASCII equivalents % we use for the index sort strings.
%
\indexnofonts
\setupdtafile
% We can have normal brace characters in the PDF outlines, unlike % Texinfo index files. So set that up.
\def\lbracecharliteral}{\lbrace\char\active\otherbackslash}
\def\rbracecharliteral}{\rbrace\char\active\otherbackslash}
\catcode`\lbrace=1 \catcode`\rbrace=2
\catcode`\{=\other \catcode`\}=\other
\gdef\lbracecharliteral}[]{\}[\relax
\gdef\rbracecharliteral}[]{}\relax
%
\def\skipspaces#1{\def\PP{#1}\def\D{|}%
\ifx\PP\D\let\nextsp\relax
\else\let\nextsp\skipspaces
\addtokens{\filename}{\PP}%
\advance\filenamelength by 1
\fi
\nextsp}
\def\getfilename#1{\% \\
\filenamelength=0
% If we don't expand the argument now, \skipspaces will get % snagged on things like "\@value{foo}".
\edef\temp{#1}%
\expandafter\skipspaces\temp\relax
}
\ifdef\pdfversion < 14
\let\startlink\pdfannotlink


\else
  \let \startlink \pdfstartlink
  \fi

% make a live url in pdf output.
\def\pdfurl#1{%
\begingroup
  \% it seems we really need yet another set of dummies; have not
  \% tried to figure out what each command should do in the context
  \% of @url. for now, just make @/ a no-op, that's the only one
  \% people have actually reported a problem with.
  \%
  \normalturnoffactive
  \def@ {@ }%
  \let/=\empty
  \makevalueexpandable
  \% do we want to go so far as to use \indexnofonts instead of just
  \% special-casing \var here?
  \def\var##1{##1}%
  \%
  \leavevmode\setcolor{\urlcolor}%
  \startlink attr{/Border [0 0 0]}%
  user{/Subtype /Link /A << /S /URI /URI (#1) >>}%
\endgroup}
\def\pdfgettoks#1.{\setbox\boxA=\hbox{\toksA={#1.}\toksB={} \maketoks}}
\def\addtokens#1#2{\edef\addtoks{\noexpand#1={\the#1#2}}\addtoks}
\def\adn#1{\addtokens{\toksC}{#1}\global\countA=1\let\next=\maketoks}
\def\poptoks#1#2|ENDTOKS|{\let\first=#1\toksD={#1}\toksA={#2}}
\def\maketoks{\expandafter\poptoks\the	oksA|ENDTOKS|\relax
  \if\first0\adn0
  \else\if\first1\adn1 \else\if\first2\adn2 \else\if\first3\adn3
  \else\if\first4\adn4 \else\if\first5\adn5 \else\if\first6\adn6
  \else\if\first7\adn7 \else\if\first8\adn8 \else\if\first9\adn9
  \else
  \ifnum0=\countA\else\makelink\fi
  \ifx\first.\let\next=\done\else
  \let\next=\maketoks
  \addtokens{\toksB}\{the\toksD}\fi
  \ifx\first.,\addtokens{\toksB}\{space\}\fi
  \fi
  \fi\fi\fi\fi\fi\fi\fi\fi
  \fi
\def\makelink{\addtokens{\toksB}%
  \{noexpandpdflink{the\toksC}\} \toksC={} \global\countA=0}
\def\pdflink#1{%
  \startlink attr{/Border [0 0 0]} goto name{pdfmkpgn{#1}}%
  \setcolor{\linkcolor}#1\endlink}
\def\done{\edef\st{\global\noexpand	oksA={\the	oksB}}\st}
\else
% non-pdf mode
\let\pdfmkndest = \gobble
\let\pdfurl = \gobble
\let\endlink = \relax
\let\setcolor = \gobble
\let\pdfsetcolor = \gobble
\let\pdfmakeoutlines = \relax
\fi % \ifx\pdfoutput
\message{fonts,}

% Change the current font style to #1, remembering it in \curfontstyle.
% For now, we do not accumulate font styles: \@b{\@i{foo}} prints foo in
% italics, not bold italics.
%
\def\setfontstyle#1{%
  \def\curfontstyle{#1}% not as a control sequence, because we are \edef'd.
  \csname ten#1\endcsname  % change the current font
}

% Select #1 fonts with the current style.
%
\def\selectfonts#1{\csname #1fonts\endcsname \csname\curfontstyle\endcsname}

\def\rm{\fam=0 \setfontstyle{rm}}
\def\it{\fam=\itfam \setfontstyle{it}}
\def\sl{\fam=\slfam \setfontstyle{sl}}
\def\bf{\fam=\bffam \setfontstyle{bf}}
\def\bfstylename{bf}
\def\tt{\fam=\ttfam \setfontstyle{tt}}

% Unfortunately, we have to override this for titles and the like, since
% in those cases "rm" is bold. Sigh.
\def\rmisbold{\rm\def\curfontstyle{bf}}

% Texinfo sort of supports the sans serif font style, which plain TeX does not.
% So we set up a \sf.
\newfam\sffam
\def\sf{\fam=\sffam \setfontstyle{sf}}
\let\li = \sf % Sometimes we call it \li, not \sf.

% We don't need math for this font style.
\def\ttsl{\setfontstyle{ttsl}}

% Set the baselineskip to #1, and the lineskip and strut size
% correspondingly. There is no deep meaning behind these magic numbers
\% used as factors; they just match (closely enough) what Knuth defined.
\%
\def\lineskipfactor{.08333}
\def\strutheightpercent{.70833}
\def\strutdepthpercent{.29167}
\%
\% can get a sort of poor man's double spacing by redefining this.
\def\baselinefactor{1}
\%
\newdimen\textleading
\def\setleading#1{\%}
\dimen0 = #1\relax
\normalbaselineskip = \baselinefactor\dimen0
\normallineskip = \lineskipfactor\normalbaselineskip
\normalbaselines
\setbox\strutbox =\hbox{\%
\vrule width0pt height\strutheightpercent\baselineskip
depth \strutdepthpercent\baselineskip
}\%}
}

% PDF CMaps. See also LaTeX's t1.cmap.
% % do nothing with this by default.
\expandafter\let\csname cmapOT1\endcsname\gobble
\expandafter\let\csname cmapOT1IT\endcsname\gobble
\expandafter\let\csname cmapOT1TT\endcsname\gobble

% if we are producing pdf, and we have \pdffontattr, then define cmaps.
% \pdffontattr was introduced many years ago, but people still run
% older pdftex's; it's easy to conditionalize, so we do.)
\ifpdf \ifx\pdffontattr\thisisundefined \else
\begingroup
\catcode`^^M=\active \def^^M{^^J}% Output line endings as the ^^J char.
\catcode`%=12 \immediate\pdfobj stream {%!PS-Adobe-3.0 Resource-CMap
%%DocumentNeededResources: ProcSet (CIDInit)
%%%IncludeResource: ProcSet (CIDInit)
%%%BeginResource: CMap (TeX-OT1-0)
%%%Title: (TeX-OT1-0 TeX OT1 0)
%%%Version: 1.000
%%%EndComments
/CIDInit /ProcSet findresource begin
12 dict begin
beginmap
/CIDSystemInfo
<< /Registry (TeX)
/Ordering (OT1)
/Supplement 0
\begin{verbatim}
<06> <03A3>
<07> <03D2>
<08> <03A6>
<0B> <2191>
<0C> <2193>
<0D> <0027>
<0E> <00A1>
<0F> <00BF>
<10> <0131>
<11> <0237>
<12> <0060>
<13> <00B4>
<14> <02C7>
<15> <02D8>
<16> <00AF>
<17> <02DA>
<18> <00B8>
<19> <00DF>
<1A> <0153>
<1B> <015C>
<1C> <00E6>
<1D> <00C6>
<1E> <0152>
<1F> <00D8>
<20> <2423>
<27> <2019>
<60> <2018>
<7F> <00A8>
endbfchar
endcmap
CMapName currentdict /CMap defineresource pop
end
end
%%EndResource
%%EOF
\end{verbatim}

% Set the font macro #1 to the font named \fontprefix#2.
% #3 is the font's design size, #4 is a scale factor, #5 is the CMap
% encoding (only OT1, OT1IT and OT1TT are allowed, or empty to omit).
% Example:
% #1 = \textrm
% #2 = \rmshape
\def\setfont#1#2#3#4#5{% 
\font#1=\fontprefix#2#3 scaled #4 
\csname cmap#5\endcsname#1% 
} 
% This is what gets called when #5 of \setfont is empty. 
\let\cmap\gobble 
%
% (end of cmaps)

% Use cm as the default font prefix. 
% To specify the font prefix, you must define \fontprefix 
% before you read in texinfo.tex. 
\ifx\fontprefix\thisisundefined 
\def\fontprefix{cm} 
\fi 
% Support font families that don't use the same naming scheme as CM. 
\def\rmshape{r} 
\def\rmbshape{bx}               % where the normal face is bold 
\def\bfshape{b} 
\def\bxshape{bx} 
\def\ttshape{tt} 
\def\ttbshape{tt} 
\def\ttslshape{sltt} 
\def\itshape{ti} 
\def\itbshape{bxti} 
\def\slshape{sl} 
\def\slbshape{bxsl} 
\def\sfshape{ss} 
\def\sfbshape{ss} 
\def\scshape{csc} 
\def\scbshape{csc} 

% Definitions for a main text size of 11pt. (The default in Texinfo.) 
%
\def\definetextfontsizexi{% 
% Text fonts (11.2pt, magstep1). 
\edef\textnominalsize{11pt} 
\edef\mainmagstep{\magstephalf} 
\setfont\textrm{rmshape}{10}{\mainmagstep}{OT1} 
\setfont\texttt{ttshape}{10}{\mainmagstep}{OT1TT} 
\setfont\textbf{bfshape}{10}{\mainmagstep}{OT1} 
\setfont\textit{itshape}{10}{\mainmagstep}{OT1IT} 
\setfont\textsl{slshape}{10}{\mainmagstep}{OT1} 
\setfont\textsf{sfshape}{10}{\mainmagstep}{OT1}
Open Source Used In vEdge 20.1

20.1

2056
\% Reduced fonts for @acro in text (10pt).
\def\reducednominalsize{10pt}
\setfont\reducedrm\rmshape{10}{1000}{OT1}
\setfont\reducedtt\ttshape{10}{1000}{OT1TT}
\setfont\reducedbf\bfshape{10}{1000}{OT1}
\setfont\reducedit\itshape{10}{1000}{OT1IT}
\setfont\reducedsl\slshape{10}{1000}{OT1}
\setfont\reducedsf\sfshape{10}{1000}{OT1}
\setfont\reducedsc\scshape{10}{1000}{OT1}
\setfont\reducedttsl\ttslshape{10}{1000}{OT1TT}
\font\reducedi=cmmi10
\font\reducedsy=cmsy10
\def\reducedecsize{1000}
\textleading = 13.2pt \% line spacing for 11pt CM
\textfonts \% reset the current fonts
\rm
\}
\% end of 11pt text font size definitions, \definetextfontsizex

\% Definitions to make the main text be 10pt Computer Modern, with
\% section, chapter, etc., sizes following suit. This is for the GNU
\% Press printing of the Emacs 22 manual. Maybe other manuals in the
\% future. Used with \@smallbook, which sets the leading to 12pt.
\%
\def\definetextfontsizex{\%
\% Text fonts (10pt).
\def\textnominalsize{10pt}
\def\mainmagstep{1000}
\setfont\textrm\rmshape{10}{\mainmagstep}{OT1}
\setfont\texttt\ttshape{10}{\mainmagstep}{OT1TT}
\setfont\textbf\bfshape{10}{\mainmagstep}{OT1}
\setfont\textit\itshape{10}{\mainmagstep}{OT1IT}
\setfont\textsl\slshape{10}{\mainmagstep}{OT1}
\setfont\textsf\sfshape{10}{\mainmagstep}{OT1}
\setfont\textsc\scshape{10}{\mainmagstep}{OT1}
\setfont\textttsl\ttslshape{10}{\mainmagstep}{OT1TT}
\font\texti=cmmi10 scaled \mainmagstep
\font\textsy=cmsy10 scaled \mainmagstep
\def\textecsize{1000}
\textleading = 13.2pt \% line spacing for 11pt CM
\textfonts \% reset the current fonts
\rm
\}
\% end of 10pt text font size definitions, \definetextfontsizex

\% A few fonts for @defun names and args.
\setfont\defbf\bfshape{10}{\magstephalf}{OT1}
\setfont\deftt\ttshape{10}{\magstephalf}{OT1TT}
\setfont\defttsl\ttslshape{10}{\magstephalf}{OT1TT}
\def\df{\let\tentt=\deftt \let\tenbf = \defbf \let\tenttsl=\defttsl \bf}

\% Fonts for indices, footnotes, small examples (9pt).
\divide\parskip by 2  % reduce space between paragraphs
\textleading = 12pt  % line spacing for 10pt CM
\textfonts        % reset the current fonts
\rm
} % end of 10pt text font size definitions, \definetextfontsizex

% We provide the user-level command
%   @fonttextsize 10
% (or 11) to redefine the text font size.  pt is assumed.
%
\def\xiword{11}
\def\xword{10}
\def\xwordpt{10pt}
%
\parseargdef\fonttextsize{%
  \def\textsizearg{#1}%
  \wlog{doing @fonttextsize \textsizearg}%
%
  % Set \globaldefs so that documents can use this inside @tex, since
  % makeinfo 4.8 does not support it, but we need it nonetheless.
  %
  \begingroup \globaldefs=1
  \ifx\textsizearg\xword \definetextfontsizex
  \else \ifx\textsizearg\xiword \definetextfontsizexi
  \else
    \errhelp=\EMsimple
    \errmessage{@fonttextsize only supports `10' or `11', not `\textsizearg'}
  \fi
  \fi
  \endgroup
}

% In order for the font changes to affect most math symbols and letters,
% we have to define the \textfont of the standard families.  Since
% texinfo doesn't allow for producing subscripts and superscripts except
% in the main text, we don't bother to reset \scriptfont and
% \scriptscriptfont (which would also require loading a lot more fonts).
%
\def\resetmathfonts{%
  \textfont0=\tenrm \textfont1=\teni \textfont2=\tensy
  \textfont\itfam=\tenit \textfont\slfam=\tensl \textfont\bffam=\tenbf
  \textfont\ttfam=\tentt \textfont\sffam=\tensf
}

% The font-changing commands redefine the meanings of \tenSTYLE, instead
% of just \STYLE.  We do this because \STYLE needs to also set the
% current \fam for math mode. Our \STYLE (e.g., \rm) commands hardwire
% \tenSTYLE to set the current font.
%
% Each font-changing command also sets the names \size (one size lower)
% and \llsize (three sizes lower). These relative commands are used in
% the LaTeX logo and acronyms.
%
% This all needs generalizing, badly.
%
def\textfonts{%
  \let\tenrm=\textrm \let\tenit=\textit \let\tensl=\textsl
  \let\tenbf=\textbf \let\tentt=\texttt \let\smallcaps=\textsc
  \let\tensf=\textsf \let\teni=\texti \let\tensy=\textsy
  \let\tenttsl=\textttsl
  \def\curfontsize{text}%
  \def\lsize{reduced}\def\lllsize{smaller}%
  \resetmathfonts \setleading{\textleading}}%
def\titlefonts{%
  \let\tenrm=\titlerm \let\tenit=\titleit \let\tensl=\titlesl
  \let\tenbf=\titlebf \let\tentt=\titlett \let\smallcaps=\titlesc
  \let\tensf=\titlesf \let\teni=\titlei \let\tensy=\titlesy
  \let\tenttsl=\titlettsl
  \def\curfontsize{title}%
  \def\lsize{chap}\def\lllsize{subsec}%
  \resetmathfonts \setleading{27pt}}%
def\chapfonts{%
  \let\tenrm=\chaprm \let\tenit=\chapit \let\tensl=\chapsl
  \let\tenbf=\chapbf \let\tentt=\chaptt \let\smallcaps=\chapsc
  \let\tensf=\secsf \let\teni=\seci \let\tensy=\secsy
  \let\tenttsl=\secttsl
  \def\curfontsize{chap}%
  \def\lsize{sec}\def\lllsize{text}%
  \resetmathfonts \setleading{19pt}}%
def\secfonts{%
  \let\tenrm=\secrm \let\tenit=\secit \let\tensl=\secsl
  \let\tenbf=\secbf \let\tentt=\sectt \let\smallcaps=\secsc
  \let\tensf=\ssecsf \let\teni=\sseci \let\tensy=\ssecsy
  \let\tenttsl=\secttsl
  \def\curfontsize{sec}%
  \def\lsize{subsec}\def\lllsize{reduced}%
  \resetmathfonts \setleading{16pt}}%
def\subsecfonts{%
  \let\tenrm=\ssecrm \let\tenit=\ssecit \let\tensl=\ssecsl
  \let\tenbf=\ssecbf \let\tentt=\sectt \let\smallcaps=\ssecsc
  \let\tensf=\ssecsf \let\teni=\sseci \let\tensy=\ssecsy
  \let\tenttsl=\secttsl
  \def\curfontsize{ssec}%
\def\lsize{text}\def\lllsize{small}\
\resetmathfonts \setleading{15pt}\
\let\subsubsecfonts = \subsecfonts\
\def\reducedfonts{%\let\tenrm=\reducedrm \let\tenit=\reducedit \let\tensl=\reducedsl\
\let\tenbf=\reducedbf \let\tentt=\reducedtt \let\reducedcaps=\reducedsc\
\let\tensf=\reducedsf \let\teni=\reducedi \let\tensy=\reducedsy\
\let\tenttsl=\reducedttsl\
\def\curfontsize{reduced}\
\def\lsize{small}\def\lllsize{smaller}%\resetmathfonts \setleading{10.5pt}\
\def\smallfonts{%\let\tenrm=\smallrm \let\tenit=\smallit \let\tensl=\smallsl\
\let\tenbf=\smallbf \let\tentt=\smalltt \let\smallcaps=\smallsc\
\let\tensf=\smallsf \let\teni=\smalli \let\tensy=\smallsy\
\let\tenttsl=\smallttsl\
\def\curfontsize{small}\
\def\lsize{smaller}\def\lllsize{smaller}\
\resetmathfonts \setleading{10.5pt}\
\def\smallerfonts{%\let\tenrm=\smallerrm \let\tenit=\smallerit \let\tensl=\smallersl\
\let\tenbf=\smallerbf \let\tentt=\smallertt \let\smallcaps=\smallersc\
\let\tensf=\smallersf \let\teni=\smalleri \let\tensy=\smallersy\
\let\tenttsl=\smallerttsl\
\def\curfontsize{smaller}\
\def\lsize{smaller}\def\lllsize{smaller}\
\resetmathfonts \setleading{9.5pt}}\
%
% Fonts for short table of contents.
\setfont\shortcontrm{rmshape}{12}{1000}{OT1}\setfont\shortcontbf{bfshape}{10}{\magstep1}{OT1} % no cmb12\setfont\shortcontsl{slshape}{12}{1000}{OT1}\setfont\shortconttt{ttshape}{12}{1000}{OT1T}
%
% Define these just so they can be easily changed for other fonts.
\def\angleleft{$\langle$} \def\angleright{$\rangle$}
%
% Set the fonts to use with the @small... environments.
\let\smallexamplefonts = \smallfonts
%
% About \smallexamplefonts. If we use \smallfonts (9pt), @smallexample
% can fit this many characters:
% 8.5x11=86  smallbook=72  a4=90  a5=69
% If we use \scriptfonts (8pt), then we can fit this many characters:
% 8.5x11=90+  smallbook=80  a4=90+  a5=77
% For me, subjectively, the few extra characters that fit aren't worth
% the additional smallness of 8pt. So I'm making the default 9pt.
% By the way, for comparison, here's what fits with @example (10pt):
% 8.5x11=71  smallbook=60  a4=75  a5=58
% --karl, 24jan03.

% Set up the default fonts, so we can use them for creating boxes.
%
\definetextfontsizexi

\message{markup.}

% Check if we are currently using a typewriter font. Since all the
% Computer Modern typewriter fonts have zero interword stretch (and
% shrink), and it is reasonable to expect all typewriter fonts to have
% this property, we can check that font parameter.
%
\def\ifmonospace{\ifdim\fontdimen3\font=0pt }

% Markup style infrastructure. \defmarkupstylesetup\INITMACRO will
% define and register \INITMACRO to be called on markup style changes.
% \INITMACRO can check \currentmarkupstyle for the innermost
% style and the set of \ifmarkupSTYLE switches for all styles
% currently in effect.
\newif\ifmarkupvar
\newif\ifmarkupsamp
\newif\ifmarkupkey
%\newif\ifmarkupfile % @file == @samp.
%\newif\ifmarkupoption % @option == @samp.
\newif\ifmarkupcode
\newif\ifmarkupkbd
%\newif\ifmarkupenv % @env == @code.
%\newif\ifmarkupcommand % @command == @code.
\newif\ifmarkuptex % @tex (and part of @math, for now).
\newif\ifmarkupexample
\newif\ifmarkupverb
\newif\ifmarkupverbatim

%\let\currentmarkupstyle\empty
\def\setupmarkupstyle#1{\%\csname markup#1true\endcsname
\def\currentmarkupstyle{#1} \markupstylesetup}

%\let\markupstylesetup\empty
\def\defmarkupstylesetup#1{\%
  \expandafter\def\expandafter\markupstylesetup
  \expandafter{\markupstylesetup #1}\
  \def#1\%
}\%

% Markup style setup for left and right quotes.
\def\markupstylesetup\markupsetuplq{\%
  \expandafter\let\expandafter \temp\csname markupsetuplq\currentmarkupstyle\endcsname
  \ifx\temp\relax \markupsetuplqdefault \else \temp \fi
}\%

\def\markupstylesetup\markupsetuprq{\%
  \expandafter\let\expandafter \temp\csname markupsetuprq\currentmarkupstyle\endcsname
  \ifx\temp\relax \markupsetuprqdefault \else \temp \fi
}\%

{\catcode`\'=\active\catcode`\`=\active
  \gdef\markupsetuplqdefault{\let`\lq}
  \gdef\markupsetuprqdefault{\let\rq}
  \gdef\markupsetcodequoteleft{\let`\codequoteleft}
  \gdef\markupsetcodequoteright{\let\codequoteright}
  \let\markupsetuplqcode \markupsetcodequoteleft
  \let\markupsetuprqcode \markupsetcodequoteright
  \let\markupsetuplqexample \markupsetcodequoteleft
  \let\markupsetuprqexample \markupsetcodequoteright
  \let\markupsetuplqkbd \markupsetcodequoteleft
  \let\markupsetuprqkbd \markupsetcodequoteright
  \let\markupsetuplqsamp \markupsetcodequoteleft
  \let\markupsetuprqsamp \markupsetcodequoteright
  \let\markupsetuplqverb \markupsetcodequoteleft
  \let\markupsetuprqverb \markupsetcodequoteright
  \let\markupsetuplqverbatim \markupsetcodequoteleft
  \let\markupsetuprqverbatim \markupsetcodequoteright
}
% Allow an option to not use regular directed right quote/apostrophe  
% (char 0x27), but instead the undirected quote from cmtt (char 0x0d).  
% The undirected quote is ugly, so don't make it the default, but it  
% works for pasting with more pdf viewers (at least evince), the  
% lilypond developers report. xpdf does work with the regular 0x27.  
% 
\def\codequoteright{  
\expandafter\ifx\csname SETtxicodequoteundirected\endcsname\relax  
\expandafter\ifx\csname SETcodequoteundirected\endcsname\relax  
  %  
  \else \char'15 \fi  
\else \char'15 \fi  
}  
% and a similar option for the left quote char vs. a grave accent.  
% Modern fonts display ASCII 0x60 as a grave accent, so some people like  
% the code environments to do likewise.  
% 
\def\codequoteleft{  
\expandafter\ifx\csname SETtxicodequotebacktick\endcsname\relax  
\expandafter\ifx\csname SETcodequotebacktick\endcsname\relax  
\relax`%  
\else \char'22 \fi  
\else \char'22 \fi  
}  
% Commands to set the quote options.  
% 
\parseargdef\codequoteundirected{  
% \def\temp[#1]{  
  \ifx\temp\onword  
  \expandafter\let\csname SETtxicodequoteundirected\endcsname=t\%  
  \else\ifx\temp\offword  
  \expandafter\let\csname SETtxicodequoteundirected\endcsname=\relax\%  
  \else  
  \errhelp = \EMsimple  
  \errmessage[Unknown @codequoteundirected value `\temp', must be on|off]  
  \fi\fi  
\}  
%  
\parseargdef\codequotebacktick{  
% \def\temp[#1]{  
  \ifx\temp\onword  
  \expandafter\let\csname SETtxicodequotebacktick\endcsname  
  \else  
  \errhelp = \EMsimple  
  \errmessage[Unknown @codequotebacktick value `\temp', must be on|off]  
  \fi\fi  
\}
\"% \[Knuth\] pp. 380,381,391, disable Spanish ligatures \’ and \!' of \tt font.
\def\noligaturesquoteleft{\relax\lq}

% Count depth in font-changes, for error checks
\newcount\fontdepth \fontdepth=0

% Font commands.

% #1 is the font command (\sl or \it), #2 is the text to slant.
% If we are in a monospaced environment, however, 1) always use \ttsl,
% and 2) do not add an italic correction.
\def\dosmartslantright#1#2{%
    \ifusingtt
        {{\ttsl #2}\let\next=\relax}%
    \else
        {\def\next{{#1#2}\futurelet\next\smartitaliccorrection}}%
    \next
    }
\def\smartslantright{\dosmartslantright\sl}
\def\smartslantright{\dosmartslantright\it}

% Output an italic correction unless \next (presumed to be the following
% character) is such as not to need one.
\def\smartitaliccorrection{%
    \if\next,%
    \else\if\next-%
    \else\if\next.%
    \fi\fi\fi
    \aftersmartic
    }

% Unconditional use \ttsl, and no ic. \@var is set to this for defuns.
\def\ttslanted#1{\ttsl #1}

% @cite is like \smartslantright except unconditionally use \sl. We never want
% tsl for book titles, do we?
\def\cite#1{\sl #1}\futurelet\next\smartitaliccorrection}
\def\aftersmartic {}
\def\var#1{\let\saveaftersmartic = \aftersmartic \def\aftersmartic {\null \let\aftersmartic = \saveaftersmartic} % \smartslanted [{#1}] % }

\let\i = \smartitalic
\let\slanted = \smartslanted
\let\dfn = \smartslanted
\let\emph = \smartitalic

% Explicit font changes: @r, @sc, undocumented @ii.
\def\r#1{\rm #1} % roman font
\def\sc#1{\smallcaps #1} % smallcaps font
\def\ii#1{\it #1} % italic font

% @b, explicit bold. Also @strong.
\def\b#1{\bf #1}
\let\strong = \b

% @sansserif, explicit sans.
\def\sansserif#1{\sf #1}

% We can't just use \exhyphenpenalty, because that only has effect at
% the end of a paragraph. Restore normal hyphenation at the end of the
% group within which \nohyphenation is presumably called.
% \def\nohyphenation{\hyphenchar\font = -1 \aftergroup\restorehyphenation}
\def\restorehyphenation{\hyphenchar\font = `- \}

% Set sfcode to normal for the chars that usually have another value.
% Can't use plain's \frenchspacing because it uses the \x notation, and
% sometimes \x has an active definition that messes things up.
% \catcode`@=11
\def\plainfrenchspacing{%
  \sfcode\dotChar =@m \sfcode\questChar =@m \sfcode\exclamChar =@m
  \sfcode\colonChar =@m \sfcode\semiChar =1500 \sfcode\commaChar =1250
  \def\endofsentencespacefactor{1000} % for @. and friends
%
}
\def\plainnonfrenchspacing{%
  \sfcode`\3000\sfcode`\?3000\sfcode`\!3000
  \sfcode`\:2000\sfcode`\;1500\sfcode`\,1250
  \def\endofsentencespacefactor{3000} % for @. and friends
%
\catcode`@=other
\def\endofsentencespacefactor{3000} % default
\def\tt#1{\tt \rawbackslash \plainfrenchspacing #1}\null
%
% @samp.
\def\samp#1{{\setupmarkupstyle{samp}\lq\tclose{#1}\rq\null}}
%
% @indicateurl is \samp, that is, with quotes.
\let\indicateurl=\samp
%
% @code (and similar) prints in typewriter, but with spaces the same
% size as normal in the surrounding text, without hyphenation, etc.
% This is a subroutine for that.
\def\tclose#1{\{}
  %
  % Change normal interword space to be same as for the current font.
  \spaceskip = \fontdimen2\font
  %
  % Switch to typewriter.
  \tt
  %
  % But \lq \rq produces the large typewriter interword space.
  \def\rlq\r{"\spaceskip = 0pt}{}
  %
  % Turn off hyphenation.
  \nohyphenation
  %
  \rawbackslash
  \plainfrenchspacing
  #1
  }
\null % reset spacefactor to 1000
%
% We *must* turn on hyphenation at `-` and `_` in @code.
% Otherwise, it is too hard to avoid overfull hboxes
% in the Emacs manual, the Library manual, etc.
%
% Unfortunately, TeX uses one parameter \hyphenchar to control
% both hyphenation at - and hyphenation within words.
% We must therefore turn them both off (@tclose does that)
% and arrange explicitly to hyphenate at a dash.
% -- rms.
{\catcode`\-=\active \catcode`\_\=\active
% For @command, @env, @file, @option quotes seem unnecessary, 
% so use \code rather than \samp.
\let\command=\code
\let\env=\code
\let\file=\code
\let\option=\code

% \uref (abbreviation for `urlref') takes an optional (comma-separated)
% second argument specifying the text to display and an optional third
% arg as text to display instead of (rather than in addition to) the url
% itself.  First (mandatory) arg is the url.
% (This \urefnobreak definition isn't used now, leaving it for a while
% for comparison.)
\def\urefnobreak#1{\dourefnobreak #1,,\finish}
\def\dourefnobreak#1,#2,#3,#4\finish{\begingroup
\unsepspaces
\pdfurl{#1}\
\setbox0 = \hbox{\ignorespaces #3}\
\ifdim\wd0 > 0pt
\unhbox0 % third arg given, show only that
\else
\setbox0 = \hbox{\ignorespaces #2}\
\ifpdf
\unhbox0 % PDF: 2nd arg given, show only it
\else
\unhbox0\ (\code{#1})% DVI: 2nd arg given, show both it and url
\fi
\else
\code{#1}% only url given, so show it
\fi
\fi
\endlink
\endgroup}

% This \urefbreak definition is the active one.
\def\urefbreak{\begingroup \urefcatcodes \dourefbreak}
\let\uref=\urefbreak
\def\dourefbreak#1[\urefbreakfinish #1,\finish]{\begingroup
\ifpdf
\unhbox0 % PDF: 2nd arg given, show only it
\else
\unhbox0\ (\code{#1})% DVI: 2nd arg given, show both it and url
\fi
\else
\code{#1}% only url given, so show it
\fi
\fi
\endlink
\endgroup

% This \urefnobreak definition isn't used now, leaving it for a while
% for comparison.)
\def\urefnobreak#1{\dourefnobreak #1,,\finish}
\def\dourefnobreak#1,#2,#3,#4\finish{\begingroup
\unsepspaces
\pdfurl{#1}\
\setbox0 = \hbox{\ignorespaces #3}\
\ifdim\wd0 > 0pt
\unhbox0 % third arg given, show only that
\else
\setbox0 = \hbox{\ignorespaces #2}\
\ifpdf
\unhbox0 % PDF: 2nd arg given, show only it
\else
\unhbox0\ (\code{#1})% DVI: 2nd arg given, show both it and url
\fi
\else
\code{#1}% only url given, so show it
\fi
\fi
\endlink
\endgroup}
\unsepspaces
\pdfurl{#1}\
\setbox0 = \hbox{\ignorespaces #3}\
\ifdim\wd0 > 0pt
  \unhbox0  % third arg given, show only that
\else
  \setbox0 = \hbox{\ignorespaces #2}\
  \ifdim\wd0 > 0pt
    \ifpdf
      \unhbox0  % PDF: 2nd arg given, show only it
    \else
      \unhbox0 (\urefcode{#1})% DVI: 2nd arg given, show both it and url
    \fi
  \else
    \urefcode{#1} % only url given, so show it
  \fi
\fi
\endlink
\endgroup}

% Allow line breaks around only a few characters (only).
\def\urefcatcodes{%
  \catcode\ampChar=\active \catcode\dotChar=\active
  \catcode\hashChar=\active \catcode\questChar=\active
  \catcode\slashChar=\active
}\{
  \urefcatcodes
  \global\def\urefcode{\begingroup
    \setupmarkupstyle{code}%
    \urefcatcodes
  \let&\urefcodeamp
  \let.\urefcodedot
  \let#\urefcodehash
  \let?\urefcodequest
  \let/\urefcodeslash
  \codex
  \}
%
  \% By default, they are just regular characters.
  \global\def&{\normalamp}
  \global\def.{\normaldot}
  \global\def#{\normalhash}
  \global\def?{\normalquest}
  \global\def/{\normalslash}
}\}
we put a little stretch before and after the breakable chars, to help
line breaking of long url's. The unequal skips make look better in
cmtt at least, especially for dots.
\def\urefprestretch{\urefbreak \hskip0pt plus.13em }
\def\urefpoststretch{\urefbreak \hskip0pt plus.1em }
\def\urefcodeamp{\urefprestretch \&\urefpoststretch}
\def\urefcodedot{\urefprestretch .\urefpoststretch}
\def\urefcodehash{\urefprestretch \#\urefpoststretch}
\def\urefcodequest{\urefprestretch ?\urefpoststretch}
\def\urefcodeslash{\futurelet\next\urefcodeslashfinish}
{
\catcode`\/=active
\global\def\urefcodeslashfinish{%
\urefprestretch \slashChar
% Allow line break only after the final / in a sequence of
% slashes, to avoid line break between the slashes in http://.
\ifx\next/\else \urefpoststretch \fi
}
%
% One more complication: by default we'll break after the special
% characters, but some people like to break before the special chars, so
% allow that. Also allow no breaking at all, for manual control.
%
\parseargdef\urefbreakstyle{%
\def\txiarg{#1}%
\ifx\txiarg\wordnone
\def\urefprebreak{\nobreak}\def\urefpostbreak{\nobreak}
\else\ifx\txiarg\wordbefore
\def\urefprebreak{\allowbreak}\def\urefpostbreak{\nobreak}
\else\ifx\txiarg\wordafter
\def\urefprebreak{\nobreak}\def\urefpostbreak{\allowbreak}
\else
\errhelp = \EMsimple
\errmessage{Unknown \urefbreakstyle setting `\txiarg'}%
\fi\fi\fi
}
\def\wordafter{after}
\def\wordbefore{before}
\def\wordnone{none}
\urefbreakstyle after
%
% @url synonym for @uref, since that's how everyone uses it.
%
\let\url=\uref
% rms does not like angle brackets --karl, 17may97.
% So now @email is just like @uref, unless we are pdf.
%
%\def\email#1{{\angleleft{{\tt #1}}\angleright}}
\ifpdf
  \def\email#1{{\doemail#1,,\finish}}
  \def\doemail#1,#2,#3\finish{\begingroup
    \unsepspaces
    \pdfurl{mailto:#1}\
    \setbox0 = \hbox{\ignorespaces #2}\
    \ifdim\wd0>0pt\unhbox0\else\code{#1}\fi
    \endlink
  }\else
    \let\email=\uref
  \fi
%
% @kbdinputstyle -- arg is `distinct' (@kbd uses slanted tty font always),
%  `example' (@kbd uses ttsl only inside of @example and friends),
%  or `code' (@kbd uses normal tty font always).
\parseargdef\kbdinputstyle{%
  \def\txiarg{#1}\
  \ifx\txiarg\worddistinct
    \gdef\kbdexamplefont{\ttsl}\gdef\kbdfont{\ttsl}\
  \else\ifx\txiarg\wordexample
    \gdef\kbdexamplefont{\ttsl}\gdef\kbdfont{\tt}\
  \else\ifx\txiarg\wordcode
    \gdef\kbdexamplefont{\tt}\gdef\kbdfont{\tt}\
  \else
    \errhelp = \EMsimple
    \errmessage{Unknown @kbdinputstyle setting `\txiarg'}
  \fi\fi\fi
}\
\def\worddistinct{distinct}\
\def\wordexample{example}\
\def\wordcode{code}\
% Default is `distinct'.
\kbdinputstyle distinct
%
% @kbd is like @code, except that if the argument is just one @key command,
%  then @kbd has no effect.
\def\xkey{\key}\
\def\kbdsub#1\#2\#3\par{\% \def\one{\#1}\def\three{\#3}\def\threee{??}\% \ifx\one\xkey\ifx\threee\threee \key{\#2}\%
% definition of `key' that produces a lozenge. Doesn't adjust to text size.
%\setfont\keyrm\rmshape{8}{1000}{OT1}
%\font\keysy=cmsy9
%\def\key#1{{\keyrm\textfont2=\keysy \leavevmode\hbox{%
%  \raise0.4pt\hbox{\angleleft}\kern-.08em\vtop{%
%    \vbox{\hrule\kern-0.4pt%
%      \hbox{\raise0.4pt\hbox{\vphantom{\angleleft}#1}}%
%      \kern-0.4pt\hrule}%
%    \kern-.06em\raise0.4pt\hbox{\angleright}}}%
%\kern-.06em\raise0.4pt\hbox{\angleright}}}}}

% definition of `key' with no lozenge. If the current font is already
% monospace, don't change it; that way, we respect @kbdinputstyle. But
% if it isn't monospace, then use 'tt'.
%\def\key#1{{\setupmarkupstyle{key}\
%  \nohyphenation
%  \ifmonospace\else'tt\fi
%  #1\null}}

% @clicksequence{File @click{} Open ...}
\def\clicksequence#1\begingroup #1\endgroup}

% @clickstyle @arrow (by default)
\parseargdef\clickstyle{\def\click{#1}}
\def\click{\arrow}

% Typeset a dimension, e.g., \texttt{`in'} or \texttt{`pt'}. The only reason for the
% argument is to make the input look right: @dim{pt} instead of @dim{}pt.
%\def\dmn#1\thinspace #1}

% @l was never documented to mean ``switch to the Lisp font'',
% and it is not used as such in any manual I can find. We need it for
% Polish suppressed-l. --karl, 22sep96.
%\def\l#1{{\lsize #1}\null}

% @acronym for "FBI", "NATO", and the like.
% We print this one point size smaller, since it's intended for
% all-uppercase.
%\def\acronym#1\doacronym #1,,\finish}
\def\doacronym#1,#2,#3\finish{%
  {\selectfonts\lsize #1}%
  \def\temp{#2}%
\ifx\temp\empty \else
\space (\unsepspaces\ignorespaces\temp\unskip)\%
\fi
\null % reset\spacefactor=1000
}

% @abbr for "Comput. J." and the like.
% No font change, but don't do end-of-sentence spacing.
% \def\abbr#1{\doabbr#1,,\finish}
\def\doabbr#1,#2,#3\finish{%
{\plainfrenchspacing #1}%
\def\temp{#2}%
\ifx\temp\empty \else
\space (\unsepspaces\ignorespaces\temp\unskip)\%
\fi
\null % reset\spacefactor=1000
}

% @asis just yields its argument. Used with @table, for example.
% \def\asis#1{#1}

% @math outputs its argument in math mode.
% % One complication: _ usually means subscripts, but it could also mean
% % an actual_ character, as in @math[@var{some_variable} + 1]. So make
% % _ active, and distinguish by seeing if the current family is \slfam,
% % which is what @var uses.
% {\catcode`\_=\active
\gdef\mathunderscore{%
\catcode`\_=\active
\def_\ifnum\fam=\slfam \else\sb\fi\%
}

% Another complication: we want \ (and @\) to output a math (or tt) \.
% FYI, plain.tex uses \ as a temporary control sequence (for no
% particular reason), but this is not advertised and we don't care.
% % The \mathchar is class=0=ordinary, family=7=ttfam, position=5C=\.
% \def\mathbackslash{\ifnum\fam=\ttfam \mathchar"075C \else\backslash \fi}
% \def\math{%
\tex\mathunderscore
\let\\=\mathbackslash
\mathactive
\let\^=\hat
\let\_=\tilde
$\finishmath$
\def\finishmath#1{#1$\endgroup}$\}

% make the texinfo accent commands work in math mode
\let\"=\ddot
\let\'=\acute
\let\-=\bar
\let\^=\hat
\let\_=\grave
\let\-=\breve
\let\-=\check
$\finishaccent=\dot$

% Some active characters (such as <) are spaced differently in math.
% We have to reset their definitions in case the @math was an argument
% to a command which sets the catcodes (such as @item or @section).
%
%
\catcode`^ = \active
\catcode`< = \active
\catcode`> = \active
\catcode`+ = \active
\catcode`' = \active
\gdef\mathactive{\%
\let^ = \ptexhat
\let< = \ptexless
\let> = \ptexgtr
\let+ = \ptexplus
\let' = \ptexquoteright
\}
%

% ctrl is no longer a Texinfo command, but leave this definition for fun.
\def\ctrl #1{\tt \rawbackslash \hat}#1}

% @inlinefmt{FMTNAME,PROCESSED-TEXT} and @inlineraw{FMTNAME,RAW-TEXT}.
% Ignore unless FMTNAME == tex; then it is like @iftex and @tex,
% except specified as a normal braced arg, so no newlines to worry about.
%
\def\outfmntex{tex}
%
\long\def\inlinefmt#1{\doinlinefmt #1,\finish}
\long\def\doinlinefmt#1,#2,\finish{\%
\def\inlinefmtname{#1}\%
\ifx\inlinefmtname\outfmntex\ignorespaces #2\fi
}
% For raw, must switch into @tex before parsing the argument, to avoid
% setting catcodes prematurely. Doing it this way means that, for
% example, @\textinline{html, foo{bar}} gets a parse error instead of being
% ignored. But this isn't important because if people want a literal
% *right* brace they would have to use a command anyway, so they may as
% well use a command to get a left brace too. We could re-use the
% delimiter character idea from \verb, but it seems like overkill.
%
\long\def\textinline{
\doinlineraw}
\long\def\doinlineraw#1{\doinlinerawtwo #1,\finish}
\def\doinlinerawtwo#1,#2,\finish{%
\if\textinline{#1}\ignorespaces #2\fi
\endgroup % close group opened by \text.
}

\message{glyphs,}
% and logos.

% @@ prints an @, as does @\texttt{char}.
\def@ {\char64}
\let@ = \@char
% @[@ ] @bracechar[ ] @\bracechar{} all generate brace characters.
% Unless we're in typewriter, use \ecfont because the CM text fonts do
% not have braces, and we don't want to switch into math.
\def\mybrace{\ifmonospace\else\ecfont\fi \char123}
\def\mybracetext{\ifmonospace\else\ecfont\fi \char125}
\let\{=\mybrace \let\bracechar\{
\let\} = \mybracetext \let\bracetextchar\}
\begingroup
% Definitions to produce \{ and \} commands for indices,
% and @{ and @} for the aux/toc files.
\catcode`\{ = \other \catcode`\} = \other
\catcode`\[ = 1 \catcode`\] = 2
\catcode`\! = 0 \catcode`\\ = \other
!gdef!lbracecmd[\{][%
!gdef!rbracecmd[\}][%
!gdef!lbraceatcmd[@][%
!gdef!bracetextatcmd[@][%
!endgroup

% @comma{} to avoid , parsing problems.
\let\comma=,

% Accents: @, @dotaccent @ringaccent @ubaraccent @udotaccent
% Others are defined by plain TeX: @` @' @" @^ @– @= @u @v @H.
\let\, = \ptexc

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\let\dotaccent = \ptexdot
\def\ringaccent#1{{\accent23 #1}}
\let\tieaccent = \ptext
\let\ubaraccent = \ptexb
\let\udotaccent = \d

% Other special characters: @questiondown @exclamdown @ordf @ordm
% Plain TeX defines: @AA @AE @O @OE @L (plus lowercase versions) @ss.
\def\questiondown{?`}
\def\exclamdown{!`}
\def\ordf{\leavevmode\raise1ex\hbox{\selectfonts\lllsize \underbar{a}}}
\def\ordm{\leavevmode\raise1ex\hbox{\selectfonts\lllsize \underbar{o}}}

% Dotless i and dotless j, used for accents.
\def\imacro{i}
\def\jmacro{j}
\def\dotless#1{%
  \def\temp{#1}%
  \ifx\temp\imacro \ifmmode\imath \else\ptexi \fi
  \else\ifx\temp\jmacro \ifmmode\jmath \else\j \fi
  \else \errmessage{@dotless can be used only with i or j}%
  \fi\fi
%
% The \TeX{} logo, as in plain, but resetting the spacing so that a
% period following counts as ending a sentence. (Idea found in latex.)%
\edef\TeX{\TeX \spacefactor=1000 }%

% @LaTeX{} logo. Not quite the same results as the definition in
% latex.ltx, since we use a different font for the raised A; it's most
% convenient for us to use an explicitly smaller font, rather than using
% the \scriptstyle font (since we don't reset \scriptstyle and
% \scriptscriptstyle).
%
\def\LaTeX{L\kern-.36em
{\setbox0=\hbox{T}\
\vbox to \ht0{\hbox{
\ifx\textnominalsize\xwordpt
% for 10pt running text, \lllsize (8pt) is too small for the A in LaTeX.
% Revert to plain's \scriptsize, which is 7pt.
\count255=\the\fam $\fam\count255 \scriptstyle A$%
\else
% For 11pt, we can use our \lllsize.
\selectfonts\lllsize A%
\fi
}}}%}
\wss
}
\kern-.15em\TeX

% Some math mode symbols.
\def\bullet{$\ptexbullet$}
\def\geq{\ifmmode \ge\else $\ge$\fi}
\def\leq{\ifmmode \le\else $\le$\fi}
\def\minus{\ifmmode -\else $-$\fi}

% @dots{} outputs an ellipsis using the current font.
% We do .5em per period so that it has the same spacing in the cm
% typewriter fonts as three actual period characters; on the other hand,
% in other typewriter fonts three periods are wider than 1.5em. So do
% whichever is larger.
%
\def\dots{
\leavevmode
\setbox0=\hbox{...}% get width of three periods
\ifdim\wd0 > 1.5em
\dimen0 = \wd0
\else
\dimen0 = 1.5em
\fi
\hbox to \dimen0{\hskip 0pt plus.25fil .\hskip 0pt plus1fil .\hskip 0pt plus1fil .\hskip 0pt plus.5fil}
}%

% @enddots{} is an end-of-sentence ellipsis.
%
\def\enddots{\dots \spacefactor=\endofsentencespacefactor}

% @point{}, @result{}, @expansion{}, @print{}, @equiv{}.
%
% Since these characters are used in examples, they should be an even number of
% \tt widths. Each \tt character is 1en, so two makes it 1em.
%
\def\point{$\star$}
\def\arrow{\leavevmode\raise.05ex\hbox to 1em{\hfill$\rightarrow$\hfill}}
\def\result{\leavevmode\raise.05ex\hbox to 1em{\hfil\$\Rightarrow\hfil}}
\def\expansion{\leavevmode\hbox to 1em{\hfil\$\mapsto\hfil}}
\def\print{\leavevmode\lower.1ex\hbox to 1em{\hfil\$\dashv\hfil}}
\def\equiv{\leavevmode\hbox to 1em{\hfil\$\ptexequiv\hfil}}

% The @error{ } command.
% Adapted from the TeXbook's \boxit.
%
\newbox\errorbox
%
\tentt \global\dimen0 = 3em)% Width of the box.
\dimen2 = .55pt % Thickness of rules
% The text. (`r' is open on the right, `e' somewhat less so on the left.)
\setbox0 = \hbox{\kern-.75pt \reducedsf \putworderror\kern-1.5pt}
%
\setbox\errorbox=\hbox to \dimen0{\hfil
\hsize = \dimen0 \advance\hsize by -5.8pt % Space to left+right.
\advance\hsize by -2\dimen2 % Rules.
\vbox{
\hrule height\dimen2
\hbox{\vrule width\dimen2 \kern3pt % Space to left of text.
\hsize \vtop{\kern2.4pt \box0 \kern2.4pt}% Space above/below.
\kern3pt\vrule width\dimen2}% Space to right.
\hrule height\dimen2}
\hfil}
%
\def\error{\leavevmode\lower.7ex\copy\errorbox}

% @pounds{} is a sterling sign, which Knuth put in the CM italic font.
%
\def\pounds{{\it\$}}

% @euro{} comes from a separate font, depending on the current style.
% We use the free feym* fonts from the eurosym package by Henrik
% Theiling, which support regular, slanted, bold and bold slanted (and
% "outlined" (blackboard board, sort of) versions, which we don't need).
% It is available from http://www.ctan.org/tex-archive/fonts/eurosym.
%
% Although only regular is the truly official Euro symbol, we ignore
% that. The Euro is designed to be slightly taller than the regular
% font height.
%
% feymr - regular
% feymo - slanted
% feybr - bold
% feybo - bold slanted
%
% There is no good (free) typewriter version, to my knowledge.
\def\euro{{\eurofont e}}
\def\eurofont{%
  \textfont{\eurofont} = \feymo10 at \eurosize
}
\font{\thiseurofont} = \feybr10 at \eurosize
}
\ifx\curfontstyle\bfstylename
%  bold:
\font{\thiseurofont} = \feybo10 at \eurosize
\else
%  regular:
\font{\thiseurofont} = \feymo10 at \eurosize
\fi
\thiseurofont
}

% Glyphs from the EC fonts. We don't use \let for the aliases, because
% sometimes we redefine the original macro, and the alias should reflect
% the redefinition.
%
%  Use LaTeX names for the Icelandic letters.
\def\DH{{{\ecfont \char"D0}}} % Eth
\def\dh{{{\ecfont \char"FO}}} % eth
\def\TH{{{\ecfont \char"DE}}} % Thorn
\def\th{{{\ecfont \char"FE}}} % thorn
%  
\def\guillemetleft{{{\ecfont \char"13}}}
\def\guillemetleft{%guillemetleft}
\def\guillemetright{{{\ecfont \char"14}}}
\def\guillemetright{%guillemetright}
\def\guilsingleleft{{{\ecfont \char"0E}}}
\def\guilsingleleft{%guilsingleleft}
\def\thequote{{\ecfont \char'12}}
\def\thequote{\{\ecfont \char'0D}}
%
% This positioning is not perfect (see the ogonek LaTeX package), but
% we have the precomposed glyphs for the most common cases. We put the
% tests to use those glyphs in the single \ogonek macro so we have fewer
% dummy definitions to worry about for index entries, etc.
%
% ogonek is also used with other letters in Lithuanian (IOU), but using
% the precomposed glyphs for those is not so easy since they aren't in
% the same EC font.
\def\ogonek#1{{%
\def\temp{#1}%
\ifx\temp\macrocharA\Aogonek
\else\ifx\temp\macrochara\aogonek
\else\ifx\temp\macrocharE\Eogonek
\else\ifx\temp\macrochare\eogonek
\else
\ecfont \setbox0=\hbox{#1}%
\ifdim\ht0=1ex\accent"0C \#1%
\else\ooalign{\unhbox0\crcr\hidewidth\char"0C \hidewidth}%
\fi
\fi\fi\fi\fi
}%
}
\def\Aogonek{{\ecfont \char'81}}\def\macrocharA{A}
\def\aogonek{{\ecfont \char'A1}}\def\macrochara{a}
\def\Eogonek{{\ecfont \char'86}}\def\macrocharE{E}
\def\eogonek{{\ecfont \char'A6}}\def\macrochare{e}
%
% Use the ec* fonts (cm-super in outline format) for non-CM glyphs.
\edef\ecfont{%
% We can't distinguish serif/sans and italic/slanted, but this
% is used for crude hacks anyway (like adding French and German
% quotes to documents typeset with CM, where we lose kerning), so
% hopefully nobody will notice/care.
\edef\ecsize{\csname curfontsize ecsize\endcsname}%
\edef\ecnominalsizesize{\csname curfontsize nominalsizesize\endcsname}\%  
\ifmonospace
% typewriter:
\edef\thisecfont = ectt\ecsize \space at \ecnominalsizesize%
\else
\edef\thisecfont = ecb\ecsize \space at \ecnominalsizesize
\if\curfontstyle\bfstylename
% bold:
\edef\thisecfont = ecb\ifusingit{i}{x}\ecsize \space at \ecnominalsizesize
\else
% regular:
\edef\thisecfont = ecb\ifusingit{ti}{rm}\ecsize \space at \ecnominalsizesize
\fi
\fi
\fi
\fi
\fi
\fi
\thisecfont

\% @registeredsymbol - R in a circle. The font for the R should really
\% be smaller yet, but llsize is the best we can do for now.
\% Adapted from the plain.tex definition of \copyright.
\%
\def\registeredsymbol{\%
  $^{{\ooalign{\hfil\raise.07ex\hbox{\selectfonts\llsize R}\
    \hfil\vcenter\Orb}}}%
   \hfill}$\%
}

\% @textdegree - the normal degrees sign.
\%
\def\textdegree{$^\circ$}

\% Laurent Siebenmann reports \Orb undefined with:
\%Textures 1.7.7 (preloaded format=plain 93.10.14) (68K) 16 APR 2004 02:38
\% so we'll define it if necessary.
\%
\if\Orb\thisisundefined
\def\Orb{\mathhexbox20D}
\fi

\% Quotes.
\chardef\quotedblleft="5C
\chardef\quotedblright="\$
\chardef\quoteleft='\`
\chardef\quoteright='\'

\message{page headings,}
\newskip\titlepagetopglue \titlepagetopglue = 1.5in
\newskip\titlepagebottomglue \titlepagebottomglue = 2pc

\% First the title page. Must do @settitle before @titlepage.
\newif\ifseenauthor
\newif\iffinishedtitlepage
\newif\ifsetcontentsaftertitlepage

\% Do an implicit @contents or @shortcontents after @end titlepage if the
\% user says @setcontentsaftertitlepage or @setshortcontentsaftertitlepage.
\%
\newif\ifsetcontentsaftertitlepage
\let\setcontentsaftertitlepage = \setcontentsaftertitlepagetrue
\newif\ifsetshortcontentsaftertitlepage
\let\setshortcontentsaftertitlepage = \setshortcontentsaftertitlepagetrue

\parseargdef\shorttitlepage{%
  \begingroup \hbox{\vskip 1.5in \chaprm \centerline{#1}}%
  \endgroup \page \hbox{\page}
}

\envdef\titlepage{%
% Open one extra group, as we want to close it in the middle of \Etitlepage.
  \begingroup
    \parindent=0pt \textfonts
    % Leave some space at the very top of the page.
    \vglue\titlepagetopglue
    % No rule at page bottom unless we print one at the top with @title.
    \finishedtitlepagetrue
    %
    % Most title "pages" are actually two pages long, with space
    % at the top of the second.  We don't want the ragged left on the second.
    \let\oldpage = \page
    \def\page{%
      \iffinishedtitlepage\else
      \finishtitlepage\fi
      \let\page = \oldpage
      \page
    }%
  \null
}\}

\def\Etitlepage{%
  \iffinishedtitlepage\else
  \finishtitlepage
  \fi
  \let\page = \oldpage
  \page
  \null
}%

\def\Etitlepage{%
  \iffinishedtitlepage\else
  \finishtitlepage
  \fi
  % It is important to do the page break before ending the group,
  % because the headline and footline are only empty inside the group.
  % If we use the new definition of \page, we always get a blank page
  % after the title page, which we certainly don't want.
  \oldpage
}\endgroup
%
% Need this before the \...aftertitlepage checks so that if they are
% in effect the toc pages will come out with page numbers.
\HEADINGSon
%
% If they want short, they certainly want long too.
\ifsetshortcontentsaftertitlepage
  \shortcontents
\contents
% Settings used for typesetting titles: no hyphenation, no indentation, % don't worry much about spacing, ragged right. This should be used % inside a vbox, and fonts need to be set appropriately first. Because % it is always used for titles, nothing else, we call \misbold. \par % should be specified before the end of the \vbox, since a vbox is a group. %

\def\raggedtitlesettings{\%
  \misbold
  \hyphenpenalty=10000
  \parindent=0pt
  \tolerance=5000
  \ptexraggedright
}

% Macros to be used within @titlepage:

\let\subtitlerm=\tenrm
\def\subtitlefont{\subtitlerm \normalbaselineskip = 13pt \normalbaselines}

\parsearg\def\title{\%
  \checkenv\titlepage
  \vbox{\titlefonts \raggedtitlesettings #1\par}%
  % print a rule at the page bottom also.
  \finishedtitlepagetrue
  \vskip4pt \hrule height 4pt width \hsize \vskip4pt
}

\parsearg\def\subtitle{\%
  \checkenv\titlepage
  {\subtitlefont \rightline{#1}}%
}
% *author* should come last, but may come many times.
% It can also be used inside *quotation*.
% 
\parsearg{\author}{% 
\def\temp{\quotation}%
\ifx\thisenv\temp
\def\quotationauthor{#1}% printed in \Equotation.
\else
\checkenv\titlepage
\ifseenauthor\else \vskip 0pt plus 1filll \seenauthortrue \fi
{\secfonts\rmisbold \leftline{#1}}%
\fi
}%

% Set up page headings and footings.
\let\thispage=\folio

\newtoks\evenheadline    % headline on even pages
\newtoks\oddheadline     % headline on odd pages
\newtoks\evenfootline    % footline on even pages
\newtoks\oddfootline     % footline on odd pages

% Now make TeX use those variables
\headline={\textfonts\rm \ifodd\pageno \the\oddheadline
\else \the\evenheadline \fi}
\footline={\textfonts\rm \ifodd\pageno \the\oddfootline
\else \the\evenfootline \fi}\HEADINGShook}
\let\HEADINGShook=\relax

% Commands to set those variables.
% For example, this is what *headings on* does
% \@evenheading \@thistitle|\@thispage|\@thischapter
% \@oddheading \@thischapter|\@thispage|\@thistitle
% \@evenfooting \@thisfile||
% \@oddfooting ||\@thisfile

\def\evenheading{\parsearg\evenheadingxxx}
\def\evenheadingxxx #1{\evenheadingyyy #1\\\\\finish}
\def\evenheadingyyy #1|#2|#3|#4\finish{%
\global\evenheadline={\rlap{\centerline{#2}}\line{#1\hfil#3}}}

\def\oddheading{\parsearg\oddheadingxxx}
\def\oddheadingxxx #1{\oddheadingyyy #1\\\\\finish}
\def\oddheadingyyy #1|#2|#3|#4\finish{%
\everyfootingmarks bottom

% @headings double turns headings on for double-sided printing.
% @headings single turns headings on for single-sided printing.
% @headings off turns them off.
% @headings on same as @headings double, retained for compatibility.
% @headings after turns on double-sided headings after this page.
% @headings doubleafter turns on double-sided headings after this page.
% @headings singleafter turns on single-sided headings after this page.
% By default, they are off at the start of a document,
% and turned `on' after @end titlepage.

\def\headings #1 {\csname HEADINGS#1\endcsname}
\def\headingsoff{% non-global headings elimination
  \evenheadline={\hfil}\evenfootline={\hfil}%
  \oddheadline={\hfil}\oddfootline={\hfil}%
}
\def\HEADINGSoff{{\globaldefs=1 \headingsoff}} % global setting
\HEADINGSoff % it's the default

% When we turn headings on, set the page number to 1.
% For double-sided printing, put current file name in lower left corner,
% chapter name on inside top of right hand pages, document
% title on inside top of left hand pages, and page numbers on outside top
% edge of all pages.
\def\HEADINGSdouble{%
  \pageno=1
  \evenfootline={\hfil}
  \oddfootline={\hfil}
  \evenheadline={\line{\folio\hfil\thistitle}}
  \oddheadline={\line{\thischapter\hfil\folio}}
  \let\contentsalignmacro = \chapoddpage
}
\let\contentsalignmacro = \chappager

% For single-sided printing, chapter title goes across top left of page,
% page number on top right.
\def\HEADINGSsingle{%
  \pageno=1
  \evenfootline={\hfil}
  \oddfootline={\hfil}
  \evenheadline={\line{\thischapter\hfil\folio}}
  \oddheadline={\line{\thischapter\hfil\folio}}
  \let\contentsalignmacro = \chappager
}
\def\HEADINGSon{\HEADINGSdouble}
\def\HEADINGSafter{\let\HEADINGShook=\HEADINGSdoublex}
\let\HEADINGSdoubleafter=\HEADINGSafter
\def\HEADINGSdoublex{%
\global\evenfootline={\hfil}
\global\oddfootline={\hfil}
\global\evenheadline={\line{\folio\hfil\thistitle}}
\global\oddheadline={\line{\thischapter\hfil\folio}}
\global\let\contentsalignmacro = \chapoddpage
}
\def\HEADINGSsingleafter{\let\HEADINGShook=\HEADINGSsinglex}
\def\HEADINGSsinglex{%
\global\evenfootline={\hfil}
\global\oddfootline={\hfil}
\global\evenheadline={\line{\thischapter\hfil\folio}}
\global\oddheadline={\line{\thischapter\hfil\folio}}
\global\let\contentsalignmacro = \chappager
}

% Subroutines used in generating headings
% This produces Day Month Year style of output.
% Only define if not already defined, in case a txi-??\.tex file has set
% up a different format (e.g., txi-cs\.tex does this).
% if\today\thisisundefined
\def\today{%
\number\day\space
\ifcase\month
or\putwordMJan\or\putwordMFeb\or\putwordMMar\or\putwordMApr
\or\putwordMMay\or\putwordMJun\or\putwordMJul\or\putwordMAug
\or\putwordMSep\or\putwordMOct\or\putwordMNov\or\putwordMDec
\fi
\space\number\year}
\fi

% @settitle line... specifies the title of the document, for headings.
% It generates no output of its own.
\def\thistitle{\putwordNoTitle}
\def\settitle{\parsearg{\gdef\thistitle}}

\message{tables,}
% Tables -- @table, @ftable, @vtable, @item(x).
% default indentation of table text
\newdimen\tableindent \tableindent=.8in
% default indentation of @itemize and @enumerate text
\newdimen\itemindent \itemindent=.3in
% margin between end of table item and start of table text.
ewdimen\itemmargin \itemmargin=.1in

% used internally for \itemindent minus \itemmargin
\newdimen\itemmax

% Note @table, @ftable, and @vtable define @item, @itemx, etc., with
% these defs.
% They also define \itemindex
% to index the item name in whatever manner is desired (perhaps none).

\newif\ifitemxneedsnegativevskip

\def\itemxpar{\par\ifitemxneedsnegativevskip\nobreak\vskip-\parskip\nobreak\fi}
\def\internalBitem{\smallbreak \parsearg\itemzzz}
\def\internalBitemx{\itemxpar \parsearg\itemzzz}
\def\itemzzz #1{\begingroup%
\advance\hsize by -\rightskip
\advance\hsize by -\tableindent
\setbox0=\hbox{\itemindicate{#1}}% \itemindex{#1}%
\nobreak % This prevents a break before @itemx.
%
% If the item text does not fit in the space we have, put it on a line
% by itself, and do not allow a page break either before or after that
% line. We do not start a paragraph here because then if the next
% command is, e.g., @kindex, the whatsit would get put into the
% horizontal list on a line by itself, resulting in extra blank space.
\ifdim \wd0>\itemmax%
%
% Make this a paragraph so we get the \parskip glue and wrapping,
% but leave it ragged-right.
\begingroup
\advance\leftskip by-\tableindent
\advance\hsize by\tableindent
\advance\rightskip by0pt plus1fil\relax
\leavevmode\unhbox0\par
\endgroup%
%
% We're going to be starting a paragraph, but we don't want the
% \parskip glue -- logically it's part of the @item we just started.
\nobreak \vskip-\parskip
%
% Stop a page break at the \parskip glue coming up. However, if
% what follows is an environment such as @example, there will be no
% \parskip glue; then the negative vskip we just inserted would

\% cause the example and the item to crash together. So we use this
\% bizarre value of 10001 as a signal to \aboveenvbreak to insert
\% \parskip glue after all. Section titles are handled this way also.
\%
\penalty 10001
\endgroup
\itemxneedsnegativevskipfalse
\else
\% The item text fits into the space. Start a paragraph, so that the
\% following text (if any) will end up on the same line.
\noindent
\% Do this with kerns and \unhbox so that if there is a footnote in
\% the item text, it can migrate to the main vertical list and and
\% eventually be printed.
\nobreak\kern-\tableindent
\dimen0 = \itemmax \advance\dimen0 by \itemmargin \advance\dimen0 by -\wd0
\unhbox0
\nobreak\kern\dimen0
\endgroup
\itemxneedsnegativevskiptrue
\fi
\}
\def\item{\errmessage[@item while not in a list environment]}
\def\itemx{\errmessage[@itemx while not in a list environment]}

\% @table, @ftable, @vtable.
\envdefstable{%
\let\itemindex\gobble
\tablecheck{table}%
}
\envdefftable{%
\def\itemindex ##1{\doind {fn}{\code{##1}}}%
\tablecheck{ftable}%
}
\envdefvtable{%
\def\itemindex ##1{\doind {vr}{\code{##1}}}%
\tablecheck{vtable}%
}
\def\tablecheck#1{%
\ifnum \the\catcode\^^M=\active
\endgroup
\errmessage{This command won't work in this context; perhaps the problem is
that we are \inenvironment\thisenv}%
\def\next{\doignore{#1}}%
\else
\let\next\tablex%
\fi

\next
}
def\tablex#1{
def\itemindicate{#1}
\parsearg\tabley
}
def\tabley#1{\makevalueexpandable\edef\temp{\noexpand\tablez #1\space\space\space}\expandafter\temp\endtablez}
def\tablez #1 #2 #3 #4\endtablez{
\aboveenvbreak\ifnum 0#1>0 \advance \leftskip by #1\mil \fi\ifnum 0#2>0 \tableindent=#2\mil \fi\ifnum 0#3>0 \advance \rightskip by #3\mil \fi\itemmax=\tableindent\advance \itemmax by -\itemmargin\advance \leftskip by \tableindent\exdentamount=\tableindent\parindent=0pt\parskip=\smallskipamount\ifdim \parskip=0pt \parskip=2pt \fi\let\item = \internalBitem\let\itemx = \internalBitemx}
def\Etable{\endgraf\afterenvbreak}\let\Eftable=Etable\let\Evtable=Etable\let\Eitemize=Etable\let\Eenumerate=Etable
% This is the counter used by @enumerate, which is really @itemize
\newcount \itemno
\envdef\itemize{\parsearg\doitemize}
def\doitemize#1{\aboveenvbreak\itemmax=\itemindent\advance\itemmax by -\itemmargin\advance\leftskip by \itemindent\exdentamount=\itemindent\parindent=0pt\parskip=\smallskipamount\ifdim \parskip=0pt \parskip=2pt \fi\let\item = \internalBitem\let\itemx = \internalBitemx}
Try typesetting the item mark that if the document erroneously says something like \itemize @samp (intending @table), there's an error right away at the @itemize. It's not the best error message in the world, but it's better than leaving it to the @item. This means if the user wants an empty mark, they have to say @w{} not just @w.
\def\itemcontents{#1}%
\setbox0 = \hbox{\itemcontents}%
\%\% @itemize with no arg is equivalent to @itemize @bullet.
\if\itemcontents\empty\def\itemcontents{\bullet}\fi
\%\let\item=\itemizeitem
}
\% Definition of @item while inside @itemize and @enumerate.
\%
\def\itemizeitem{%
\advance\itemno by 1 \% for enumerations
{\let\par=\endgraf \smallbreak}\% reasonable place to break
{\%\% If the document has an @itemize directly after a section title, a \% \nobreak will be last on the list, and \sectionheading will have \% done a \vskip-\parskip. In that case, we don't want to zero \% parskip, or the item text will crash with the heading. On the \% other hand, when there is normal text preceding the item (as there \% usually is), we do want to zero parskip, or there would be too much \% space. In that case, we won't have a \nobreak before. At least \% that's the theory.
\ifnum\lastpenalty<10000 \parskip=0in \fi
\noindent
\hbox to 0pt{\hss \itemcontents \kern\itemmargin}\%
\%\wadjust{\penalty 1200}}% not good to break after first line of item.
\flushcr
}
\%
\splitoff TOKENS\endmark defines \first to be the first token in \% TOKENS, and \rest to be the remainder.
\%
\def\splitoff#1#2\endmark{\def\first{#1}\def\rest{#2}}%
%
Allow an optional argument of an uppercase letter, lowercase letter, \% or number, to specify the first label in the enumerated list. No \% argument is the same as `1'.
%
\envparsearg\def\enumerate{\enumeratey #1 \endenumeratey}
\def\enumeratey #1 #2\endenumeratey{%
% If we were given no argument, pretend we were given `1'.
\def\thearg[#1]{}
\ifx\thearg\empty \def\thearg[1]\fi
%
% Detect if the argument is a single token. If so, it might be a
% letter. Otherwise, the only valid thing it can be is a number.
% (We will always have one token, because of the test we just made.
% This is a good thing, since \splitoff doesn't work given nothing at
% all -- the first parameter is undelimited.)
\expandafter\splitoff\thearg\endmark
\ifx\rest\empty
% Only one token in the argument. It could still be anything.
% A ``lowercase letter'' is one whose \lccode is nonzero.
% An ``uppercase letter'' is one whose \lccode is both nonzero, and
% not equal to itself.
% Otherwise, we assume it's a number.
%
% We need the \relax at the end of the \ifnum lines to stop TeX from
% continuing to look for a <number>.
%
\ifnum\lccode\expandafter`\thearg=0\relax
\numericenumerate % a number (we hope)
\else
% It's a letter.
\ifnum\lccode\expandafter`\thearg=\expandafter`\thearg\relax
\lowercaseenumerate % lowercase letter
\else
\uppercaseenumerate % uppercase letter
\fi
\fi
\else
% Multiple tokens in the argument. We hope it's a number.
\numericenumerate
\fi
%
% An \@enumerate whose labels are integers. The starting integer is
% given in \thearg.
%
\def\numericenumerate{%
\itemno = \thearg
\startenumeration{\the\itemno}%
}
%
% The starting (lowercase) letter is in \thearg.
\def\lowercaseenumerate{%
\itemno = \expandafter`\thearg
\startenumeration{%
% Be sure we're not beyond the end of the alphabet.
\ifnum\itemno=0
 \errmessage{No more lowercase letters in @enumerate; get a bigger alphabet}%
\fi
 \char\lccode\itemno
}%
}

% The starting (uppercase) letter is in \thearg.
\def\uppercasenumenterate{%
 \itemno = \expandafter`\thearg
 \startenumeration{%
% Be sure we're not beyond the end of the alphabet.
\ifnum\itemno=0
 \errmessage{No more uppercase letters in @enumerate; get a bigger alphabet}
\fi
 \char\uccode\itemno
}%
}

% Call \doitemize, adding a period to the first argument and supplying the % common last two arguments. Also subtract one from the initial value in % \itemno, since @item increments \itemno.
% \def\startenumeration#1{%
\advance\itemno by -1
\doitemize{#1.}\flushcr
}

% \alphaenumerate and \capsenumerate are abbreviations for giving an arg % to @enumerate.
% \def\alphaenumerate{\enumerate{a}}
\def\capsenumerate{\enumerate{A}}
\def\Ealphaenumerate{\Eenumerate}
\def\Ecapsenumerate{\Eenumerate}

% @multitable macros
% Amy Hendrickson, 8/18/94, 3/6/96
% % @multitable ... @end multitable will make as many columns as desired.
% Contents of each column will wrap at width given in preamble. Width % can be specified either with sample text given in a template line, % or in percent of hsize, the current width of text on page.
% Table can continue over pages but will only break between lines.

% To make preamble:
%
% Either define widths of columns in terms of percent of \hsize:
%  @multitable @columnfractions .25 .3 .45
%  @item ...
%
% Numbers following @columnfractions are the percent of the total
% current hsize to be used for each column. You may use as many
% columns as desired.

% Or use a template:
%  @multitable \{Column 1 template\} \{Column 2 template\} \{Column 3 template\}
%  @item ...
%  using the widest term desired in each column.

% Each new table line starts with @item, each subsequent new column
% starts with @tab. Empty columns may be produced by supplying @tab's
% with nothing between them for as many times as empty columns are needed,
% ie, @tab@tab@tab will produce two empty columns.

% @item, @tab do not need to be on their own lines, but it will not hurt
% if they are.

% Sample multitable:
%
%  @multitable \{Column 1 template\} \{Column 2 template\} \{Column 3 template\}
%  @item first col stuff @tab second col stuff @tab third col
%  @item first col stuff
%    @item
%  @tab second col stuff
%    @tab
%  @tab third col
%    @item first col stuff @tab second col stuff
%    @tab Many paragraphs of text may be used in any column.
%%
%    They will wrap at the width determined by the template.
%  @item@tab@tab This will be in third column.
%  @end multitable
%
% Default dimensions may be reset by user.
% @multitableparskip is vertical space between paragraphs in table.
% @multitableparindent is paragraph indent in table.
% @multitablecolmargin is horizontal space to be left between columns.
% \multitablelinespace is space to leave between table items, baseline
to baseline.
% 0pt means it depends on current normal line spacing.
% \newskip\multitableparskip
\newskip\multitableparindent
\newdimen\multitablecolspace
\newskip\multitablelinespace
\multitableparskip=0pt
\multitableparindent=6pt
\multitablecolspace=12pt
\multitablelinespace=0pt

% Macros used to set up halign preamble:
% \let\endsetuptable\relax
\def\xendsetuptable{\endsetuptable}
\let\columnfractions\relax
\def\xcolumnfractions{\columnfractions}
\newif\ifsetpercent
% #1 is the @columnfraction, usually a decimal number like .5, but might
% be just 1. We just use it, whatever it is.
% \def\pickupwholefraction#1 {%
\global\advance\colcount by 1
\expandafter\xdef\csname col\the\colcount\endcsname{#1\hsize}%
\setuptable
}
\newcount\colcount
\def\setuptable#1{%
\def\firstarg{#1}%
\ifx\firstarg\xendsetuptable
\let\go = \relax
\else
\ifx\firstarg\xcolumnfractions
\global\setpercenttrue
\else
\ifsetpercent
\let\go=\pickupwholefraction
\else
\global\advance\colcount by 1
\setbox0=\hbox{#1\unskip\space}% Add a normal word space as a
% separator; typically that is always in the input, anyway.
\expandafter\xdef\csname col\the\colcount\endcsname{\the\wd0}%
\fi
\fi
}
\texttt{\textbackslash f x \textbackslash g o \textbackslash pickupwholefraction}
% Put the argument back for the \textbackslash pickupwholefraction call, so
% we'll always have a period there to be parsed.
\texttt{\textbackslash def\textbackslash go \{\textbackslash pickupwholefraction\#1\} %}
\texttt{\textbackslash else}
\texttt{\textbackslash def\textbackslash go = \setuptable}
\texttt{\textbackslash fi\%}
\texttt{\textbackslash fi}
\texttt{\textbackslash go}
}

% multitable-only commands.
%
% @headitem starts a heading row, which we typeset in bold.
% Assignments have to be global since we are inside the implicit group
% of an alignment entry. \texttt{\everycr} resets \texttt{\everytab} so we don't have to
% undo it ourselves.
\texttt{\textdef\textbackslash headitemfont\{\textbf\} %} for people to use in the template row; not changeable
\texttt{\textdef\textbackslash headitem\{ %}
\texttt{\textcheckenv\textbackslash multitable}
\texttt{\textcrc}
\texttt{\textglobal\textbackslash everytab\{\textbf\} %} can't use \textbackslash headitemfont since the parsing differs
\texttt{\textthe\textbackslash everytab \% for the first item}
\texttt{\} %}
%
%
% A \textbackslash tab used to include \textbackslash hskip1sp. But then the space in a template
% line is not enough. That is bad. So let's go back to just `&' until
% we again encounter the problem the 1sp was intended to solve.
%--karl, nathan@acm.org, 20apr99.
\texttt{\textdef\textbackslash tab\{\textcheckenv\textbackslash multitable \&\textthe\textbackslash everytab\} %}

% @multitable ... @end multitable definitions:
%
\texttt{\textnewtoks\textbackslash everytab \% insert after every tab.}
%
\texttt{\textenvdef\textbackslash multitable\{ %}
\texttt{\\textvskip\textparskip}
\texttt{\\textstartsavinginserts}
%
% @item within a multitable starts a normal row.
% We use \texttt{\textdef} instead of \texttt{\let} so that if one of the multitable entries
% contains an @itemize, we don't choke on the \texttt{\item} (seen as \texttt{\textcr} aka
% \texttt{\textendtemplate}) expanding \texttt{\doitemize}.
\texttt{\textdef\textbackslash item\{\textcr\} %}
%
\texttt{\\texttolerance=9500}
\texttt{\\textbadness=9500}
\texttt{\\setmultitablespacing}
\rightskip=0pt
% The first column will be indented with the surrounding text.
\ifnum\colcount=1
% The first column will be indented with the surrounding text.
\advance\hsize by\leftskip
\else
\ifssetpercent\else
% If user has not set preamble in terms of percent of \hsize
% we will advance \hsize by \multitablecolspace.
\advance\hsize by \multitablecolspace
\fi
% In either case we will make \leftskip=\multitablecolspace:
\leftskip=\multitablecolspace
\fi
% Ignoring space at the beginning and end avoids an occasional spurious
% blank line, when TeX decides to break the line at the space before the
% box from the multistrut, so the strut ends up on a line by itself.
% For example:
% @multitable @columnfractions .11 .89
% @item @code{#}
% @tab Legal holiday which is valid in major parts of the whole country.
% Is automatically provided with highlighting sequences respectively
% marking characters.
\noindent\ignorespaces##\unskip\multistrut\cr
\def\Emultitable{%
\crcr
\egroup % end the \halign
\global\setpercentfalse
}
\def\setmultitablespacing{%
\def\multistrut{\strut}% just use the standard line spacing
%
% Compute \multitablelinespace (if not defined by user) for use in
% \multitableparskip calculation. We used define \multistrut based on
% this, but (ironically) that caused the spacing to be off.
% See bug-texinfo report from Werner Lemberg, 31 Oct 2004 12:52:20 +0100.
\ifdim\multitablelinespace=0pt
\setbox0=\vbox{X}\global\multitablelinespace=\the\baselineskip
\global\advance\multitablelinespace by-\ht0
\fi
% Test to see if parskip is larger than space between lines of
% table. If not, do nothing.
% If so, set to same dimension as multitablelinespace.
\ifdim\multitableparskip>\multitablelinespace
\global\multitableparskip=\multitablelinespace
\fi}
\global\advance\multitableparskip-7pt % to keep parskip somewhat smaller
% than skip between lines in the table.
\if%
\ifdim\multitableparskip=0pt
\global\multitableparskip=\multitablelinespace
\global\advance\multitableparskip-7pt % to keep parskip somewhat smaller
% than skip between lines in the table.
\fi
\fi
\message{conditionals,}
%
% @iftex, @ifnotdocbook, @ifnothtml, @ifnotinfo, @ifnotplaintext,
% @ifnotxml always succeed. They currently do nothing; we don’t
% attempt to check whether the conditionals are properly nested. But we
% have to remember that they are conditionals, so that @end doesn’t
% attempt to close an environment group.
%
\def\makecond#1{%
  \expandafter\let\csname #1\endcsname = \relax
  \expandafter\let\csname iscond.#1\endcsname = 1
}
\makecond{iftex}
\makecond{ifnotdocbook}
\makecond{ifnothtml}
\makecond{ifnotinfo}
\makecond{ifnotplaintext}
\makecond{ifnotxml}
%
% Ignore @ignore, @ifhtml, @ifinfo, and the like.
%
\def\direntry{\doignore{direntry}}
\def\documentdescription{\doignore{documentdescription}}
\def\docbook{\doignore{docbook}}
\def\html{\doignore{html}}
\def\ifdocbook{\doignore{ifdocbook}}
\def\ifhtml{\doignore{ifhtml}}
\def\ifinfo{\doignore{ifinfo}}
\def\ifnotdocbook{\doignore{ifnotdocbook}}
\def\ifnothtml{\doignore{ifnothtml}}
\def\ifnotinfo{\doignore{ifnotinfo}}
\def\ifnotplaintext{\doignore{ifnotplaintext}}
\def\ifnotxml{\doignore{ifnotxml}}
\def\ignore{\doignore{ignore}}
\def\menu{\doignore{menu}}
\def\xml{\doignore{xml}}
%
% Ignore text until a line `@end #1', keeping track of nested conditionals.
%
% A count to remember the depth of nesting.
\newcount\doignorecount

\def\doignore#1\{\begingroup
% Scan in ``verbatim'' mode:
\obeylines
\catcode`\@ = \other
\catcode`\{ = \other
\catcode`\} = \other
%
% Make sure that spaces turn into tokens that match what \doignoretext wants.
\spaceisspace
%
% Count number of #1's that we've seen.
\doignorecount = 0
%
% Swallow text until we reach the matching `@end #1'.
\dodoignore{#1}\%
\}

{ \catcode\_ = 11 % We want to use \_STOP_ which cannot appear in texinfo source.
\obeylines
%
\gdef\dodoignore\{\%
% #1 contains the command name as a string, e.g., `ifinfo'.
%
% Define a command to find the next `@end #1'.
\long\def\doignoretext\#1\[^^M\@\#1\]\{\%
 \doignoretextyyy\#1\[^^M\@\#1\]\_STOP_\%
%
% And this command to find another #1 command, at the beginning of a
% line. (Otherwise, we would consider a line `@c @ifset', for
% example, to count as an @ifset for nesting.)
\long\def\doignoretextyyy\#1\[^^M\@\#1\]\_STOP_\{\doignoreyyy\{\#2\}\_STOP_\%
%
% And now expand that command.
\doignoretext \[^^M\%
}%
%
\def\doignoreyyy\{\%
\def\temp{#1}\
\ifx\temp\empty\%
Nothing found.
\let\next\doignoretextzzz
\else\%
Found a nested condition, ...
\advance\doignorecount by 1
\let\next\doignoretextyyy\%
... look for another.
\fi

% If we're here, #1 ends with \[^^M\]info (for example).
\fi
\next #1% the token \_STOP_ is present just after this macro.
}

% We have to swallow the remaining "\_STOP_".
%
def\doignoretextzzz#1{%
\ifnum\doignorecount = 0	% We have just found the outermost @end.
\let\next\enddoignore
\else% Still inside a nested condition.
\advance\doignorecount by -1
\let\next\doignoretext      % Look for the next @end.
\fi
\next
}

% Finish off ignored text.
{ \obeylines%
% Ignore anything after the last `@end #1'; this matters in verbatim
% environments, where otherwise the newline after an ignored conditional
% would result in a blank line in the output.
gdef\enddoignore#1^^M{\endgroup\ignorespaces}%
}

% @set VAR sets the variable VAR to an empty value.
% @set VAR REST-OF-LINE sets VAR to the value REST-OF-LINE.
%
% Since we want to separate VAR from REST-OF-LINE (which might be
% empty), we can't just use \parsearg; we have to insert a space of our
% own to delimit the rest of the line, and then take it out again if we
% didn't need it.
% We rely on the fact that \parsearg sets \catcode`\ =10.
%
\parsearg\def\set{\setyy#1 \endsetyy}
def\setyy#1 #2\endsetyy{%
{%
\makevalueexpandable
\def\temp[#2]{%\edef\next{\gdef\makecsname{SET#1}}%
\ifx\temp\empty
\next{}
\else
\setzzz#2\endsetzzz
\fi
}%
%
% Remove the trailing space \setxxx inserted.
def\setzzz#1 \endsetzzz{\next[#1]}
% @clear VAR clears (i.e., unsets) the variable VAR.
%
\parseargdef\clear{%
  %
  \makevalueexpandable
  \global\expandafter\let\csname SET#1\endcsname=\relax
  }
%
}

% @value{foo} gets the text saved in variable foo.
\def\value{\begingroup\makevalueexpandable\valuexxx}
\def\valuexxx#1{\expandablevalue{#1}\endgroup}
{
\catcode`\- = \active \catcode`\_ = \active
%
\gdef\makevalueexpandable{%
  \let\value = \expandablevalue
  % We don't want these characters active, ...
  \catcode\- = \other \catcode\_ = \other
  % ... but we might end up with active ones in the argument if
  % we're called from @code, as @code[@value{foo-bar_}], though.
  % So \let them to their normal equivalents.
  \let\-\normaldash \let\_\normalunderscore
}
%
% We have this subroutine so that we can handle at least some @value's
% properly in indexes (we call \makevalueexpandable in \indexdummies).
% The command has to be fully expandable (if the variable is set), since
% the result winds up in the index file. This means that if the
% variable's value contains other Texinfo commands, it's almost certain
% it will fail (although perhaps we could fix that with sufficient work
% to do a one-level expansion on the result, instead of complete).
%
\def\expandablevalue#1{%
  \expandafter\ifx\csname SET#1\endcsname\relax
    {[No value for ``#1'']}
    \message{Variable `#1', used in @value, is not set.}%
    \else
    \csname SET#1\endcsname
  \fi
}
%
% @ifset VAR ... @end ifset reads the `...' iff VAR has been defined
% with @set.
%
% To get special treatment of `@end ifset,' call \makeond and the redefine.
\makecond{ifset}
\def\ifset{\parsearg{\doifset{\let\next=\ifsetfail}}}
\def\doifset#1#2{%
  \makevalueexpandable
  \let\next=\empty
  \expandafter\ifx\csname SET#2\endcsname\relax
    #1% If not set, redefine \next.
  \fi
  \expandafter
  \next
}
\def\ifsetfail{\doignore{ifset}}

% @ifclear VAR ... @end executes the `...' iff VAR has never been
% defined with @set, or has been undefined with @clear.
%
% The `\else' inside the `doifset' parameter is a trick to reuse the
% above code: if the variable is not set, do nothing, if it is set,
% then redefine \next to \ifclearfail.
%
\makecond{ifclear}
\def\ifclear{\parsearg{\doifset{\else \let\next=\ifclearfail}}}\ifclearfail{\doignore{ifclear}}

% @ifcommandisdefined CMD ... @end executes the `...' if CMD (written
% without the @) is in fact defined. We can only feasibly check at the
% TeX level, so something like `mathcode' is going to be considered
% defined even though it is not a Texinfo command.
%
\makecond{ifcommanddefined}
\def\ifcommanddefined{\parsearg{\doifcmddefined{\let\next=\ifcmddefinedfail}}}\ifcmddefinedfail{\doignore{ifcommanddefined}}

% @ifcommandnotdefined CMD ... handled similar to @ifclear above.
\makecond{ifcommandnotdefined}
\def\ifcommandnotdefined{%
\parsearg{\doifcmddefined{\else \let\next=\ifcmdnotdefinedfail}}}
\def\ifcmdnotdefinedfail{\doignore{ifcommandnotdefined}}

\message{indexing,}
% Index generation facilities

% Define \newindex to be identical to plain tex's \newwrite
% except not \outer, so it can be used within macros and \if's.
\edef\newindex{\makecsname{ptexnewwrite}}

% \newindex {foo} defines an index named foo.
% It automatically defines \fooindex such that
% \fooindex ...rest of line... puts an entry in the index foo.
% It also defines \fooindfile to be the number of the output channel for
% the file that accumulates this index.  The file's extension is foo.
% The name of an index should be no more than 2 characters long
% for the sake of vms.
% \def\newindex#1{%
\iflinks
  \expandafter\newwrite \csname#1indfile\endcsname
  \openout \csname#1indfile\endcsname \jobname.#1 % Open the file
\fi
  \expandafter\xdef\csname#1index\endcsname{%
    \noexpand\doindex{#1}}
}

% \defindex foo == \newindex{foo}
% \def\defindex{\parsearg\newindex}

% Define \defcodeindex, like \defindex except put all entries in \code.
% \def\defcodeindex{\parsearg\newcodeindex}
% \def\newcodeindex#1{%
\iflinks
  \newwrite\csname#1indfile\endcsname
  \openout\csname#1indfile\endcsname \jobname.#1
\fi
\edef\csname#1index\endcsname{%
  \docodeindex[#1]}
%
% @synindex foo bar makes index foo feed into index bar.
% Do this instead of @defindex foo if you don't want it as a separate index.
%
% @syncodeindex foo bar similar, but put all entries made for index foo
% inside @code.
%
\synindex#1 #2 \dor-index[#1]{#2}
\syncodeindex#1 #2 \dor-codeindex[#1]{#2}
%
% #1 is \dor-index or \dor-codeindex, #2 the index getting redefined (foo),
% #3 the target index (bar).
\dosynindex#1#2#3{%
  Only do \closeout if we haven't already done it, else we'll end up
  closing the target index.
\if\csname donesynindex#2\endcsname \relax
  The \closeout helps reduce unnecessary open files; the limit on the
  Acorn RISC OS is a mere 16 files.
\closeout\csname#2indfile\endcsname
\let\csname#2indfile\endcsname=1
\fi
%
% redefine \fooindfile:
\let\csname#2indfile\endcsname=\temp
% redefine \fooindex:
\dor-codeindex[#1]{\noexpand\dor-index[#1]{#3}}%
%
% Define \dor-index, the driver for all \fooindex macros.
% Argument #1 is generated by the calling \fooindex macro,
% and it is "foo", the name of the index.
%
% \dor-index just uses \parsearg; it calls \dor-index for the actual work.
% This is because \dor-index is more useful to call from other macros.
%
% There is also \dosubind {index} {topic} {subtopic}
% which makes an entry in a two-level index such as the operation index.
\def\dor-index#1\def\indexname[#1]parsearg\singleindexer
\def\singleindexer#1\dor-index\indexname[#1]

% like the previous two, but they put @code around the argument.
\def\docodeindex#1{\edef\indexname{#1}\parsearg\singlecodeindexer}
\def\singlecodeindexer #1{\doind{\indexname}{\code{#1}}}

% Take care of Texinfo commands that can appear in an index entry.
% Since there are some commands we want to expand, and others we don't,
% we have to laboriously prevent expansion for those that we don't.
%\def\indexdummies{%
\escapename = \\ % use backslash in output files.
\def[@]{@@}% change to @@ when we switch to @ as escape char in index files.
\def\{\tt\char123}%
\def\}\tt\char125}%

% Need these unexpandable (because we define \tt as a dummy)
% definitions when @{ or @} appear in index entry text. Also, more
% complicated, when \text is in effect and \lbrace is a \delimiter again.
% We can't use \leftcmd and \rightcmd because texindex assumes
% braces and backslashes are used only as delimiters. Perhaps we
% should define @leftcmd and @rightcmd commands a la @comma.
\def\{{\tt\char123}}%}
\def\}}{{\tt\char125}}%}

% I don't entirely understand this, but when an index entry is
% generated from a macro call, the \endinput which \scanmacro inserts
% causes processing to be prematurely terminated. This is,
% apparently, because \indexsorttmp is fully expanded, and \endinput
% is an expandable command. The redefinition below makes \endinput
% disappear altogether for that purpose -- although logging shows that
% processing continues to some further point. On the other hand, it
% seems \endinput does not hurt in the printed index arg, since that
% is still getting written without apparent harm.
%
% Sample source (mac-idx3.tex, reported by Graham Percival to
% help-texinfo, 22may06):
% @macro funindex {WORD}
% @findex xyz
% @end macro
% ...
% @funindex commtest
%
% The above is not enough to reproduce the bug, but it gives the flavor.
% %
% Sample whatsit resulting:
% .@write3{@entry{xyz}{@folio}{@code {xyz@endinput}}}
% %
% So:
% \def\endinput = \empty
% Do the redefinitions.
\commondummies
}

% For the aux and toc files, @ is the escape character. So we want to
% redefine everything using @ as the escape character (instead of
% \realbackslash, still used for index files). When everything uses @,
% this will be simpler.
%
\def\atdummies{%
\def@[@@]%
\def[@]%
\let{ = \braceatcmd
\let} = \braceatcmd
%
% Do the redefinitions.
\commondummies
\otherbackslash
}

% Called from \indexdummies and \atdummies.
%
\def\commondummies{%
%
% \definedummyword defines \#1 as \string\#1\space, thus effectively
% preventing its expansion. This is used only for control words,
% not control letters, because the \space would be incorrect for
% control characters, but is needed to separate the control word
% from whatever follows.
%
% For control letters, we have \definedummyletter, which omits the
% space.
%
% These can be used both for control words that take an argument and
% those that do not. If it is followed by \{arg\} in the input, then
% that will dutifully get written to the index (or wherever).
%
\def\definedummyword ##1{\def##1{\string##1\space}}%
\def\definedummyletter##1{\def##1{\string##1}}%
\let\definedummyaccent\definedummyletter
%
\commondummiesnofonts
%
\definedummyletter\_%
\definedummyletter\-%
%
% Non-English letters.
% Although these internal commands shouldn't show up, sometimes they do.
% Assorted special characters.
\textdegree

% We want to disable all macros so that they are not expanded by \write.
\makeroom
% \normalturnoffactive
%
% Handle some cases of @value -- where it does not contain any
% (non-fully-expandable) commands.
\maketable
}
\define\indexnofonts{\}

% \indexnofonts is used when outputting the strings to sort the index
% by, and when constructing control sequence names. It eliminates all
% control sequences and just writes whatever the best ASCII sort string
% would be for a given command (usually its argument).
%
\def\indexnofonts{

% Accent commands should become @asis.
\def\definedummyaccent##1{\let##1\asis}
%
% We can just ignore other control letters.
\def\definedummyletter##1{\let##1\empty}
%
% All control words become @asis by default; overrides below.
\let\definedummyword\definedummyaccent
%
%common\dummies\indexnofonts
%
% Don't no-op \tt, since it isn't a user-level command
% and is used in the definitions of the active chars like <, >, |, etc.
% Likewise with the other plain tex font commands.
%\let\tt=\asis
%
\def\{\ }
\def\@{\@}
\def\_\{\_\}
\def\{-\ }
%
% Unfortunately, texindex is not prepared to handle braces in the
% content at all. So for index sorting, we map \{ and \} to strings
% starting with |, since that ASCII character is between ASCII { and }.
\def\{|\{|a|\}
\def\{|\{|b|\}
%
% Non-English letters.
\def\AA{AA}
\def\AE{AE}
\def\DH{DZZ}
\def\L{L}
\def\OE{OE}
\def\O{O}
\def\TH{ZZZ}
\def\aa{aa}
\def\ae{ae}
% We need to get rid of all macros, leaving only the arguments (if present).
% Of course this is not nearly correct, but it is the best we can do for now.
% makeinfo does not expand macros in the argument to @deffn, which ends up
% writing an index entry, and texindex isn't prepared for an index sort entry
% that starts with \.
%
% Since macro invocations are followed by braces, we can just redefine them
% to take a single TeX argument. The case of a macro invocation that
% goes to end-of-line is not handled.
%
\macrolist
}

% Undocumented (for FSFS 2nd ed.): @set txiindexlquoteignore makes us
% ignore left quotes in the sort term.
{\catcode`\`=\active
\gdef\indexlquoteignore{\let`=\empty}}

\let\indexbackslash=0  % overridden during \printindex.
\let\SETmarginindex=\relax % put index entries in margin (undocumented)?

% Most index entries go through here, but \dosubind is the general case.
% #1 is the index name, #2 is the entry text.
\def\doind#1#2{\dosubind{#1}{#2}{}}

% Workhorse for all \fooindexes.
% #1 is name of index, #2 is stuff to put there, #3 is subentry --
% empty if called from \doind, as we usually are (the main exception
% is with most defuns, which call us directly).
%
\def\dosubind#1#2#3{\
  \iflinks
  {\
    % Store the main index entry text (including the third arg).
    \toks0 = {#2}\
    % If third arg is present, precede it with a space.
    \def\thirdarg{#3}\
    \ifx\thirdarg\empty \else
    \toks0 = \expandafter{\the\toks0 \space #3}\
    \fi
    %
    \edef\writeto{\csname#1indfile\endcsname}\
    %
    \safewhatsit\dosubindwrite
  }%\fi
  %
  \edef\writeto{\csname#1indfile\endcsname}\
  %
  \safewhatsit\dosubindwrite
}%
% Write the entry in \toks0 to the index file:
% \def\dosubindwrite{%
% Put the index entry in the margin if desired.
% \if\SETmarginindex\relax\else
% \insert\margin{\hbox{\vrule height8pt depth3pt width0pt \the\toks0}}%
% \fi
% % Remember, we are within a group.
% \indexdummies % Must do this here, since \bf, etc expand at this stage
% \def\indexbackslash{\indexbackslash}% \indexbackslash isn't defined now
% % so it will be output as is; and it will print as backslash.
%%
% % Process the index entry with all font commands turned off, to
% % get the string to sort by.
% \indexnofonts
% \edef\temp{\the\toks0}% need full expansion
% \edef\indexsorttmp{\temp}%
%
% % Set up the complete index entry, with both the sort key and
% % the original text, including any font commands. We write
% % three arguments to \entry to the .?? file (four in the
% % subentry case), texindex reduces to two when writing the .??s
% % sorted result.
% \edef\temp{%
% \write\writeto{%
% \string\entry{\indexsorttmp}{\noexpand\folio}{\the\toks0}}%
% }%}
%
%
% % Take care of unwanted page breaks/skips around a whatsit:
% % % If a skip is the last thing on the list now, preserve it
% % by backing up by \lastskip, doing the \write, then inserting
% % the skip again. Otherwise, the whatsit generated by the
% % \write or \pdfdest will make \lastskip zero. The result is that
% % sequences like this:
% % @end defun
% % @tindex whatever
% % @defun ...
% % will have extra space inserted, because the \medbreak in the
% % start of the @defun won't see the skip inserted by the @end of
% % the previous defun.
% % % But don't do any of this if we're not in vertical mode. We
% don't want to do a \vskip and prematurely end a paragraph.
%
% Avoid page breaks due to these extra skips, too.
%
% But wait, there is a catch there:
% We'll have to check whether \lastskip is zero skip.  \ifdim is not
% sufficient for this purpose, as it ignores stretch and shrink parts
% of the skip. The only way seems to be to check the textual
% representation of the skip.
%
% The following is almost like \def\zeroskipmacro{0.0pt} except that
% the ``p'' and ``t'' characters have catcode \other, not 11 (letter).
%
% \def\zeroskipmacro{\expandafter\the\csname z@skip\endcsname}
%
% \newskip\whatsitskip
% \newcount\whatsitpenalty
%
% ..., ready, GO:
%
% \def\safewhatsit#1{\ifhmode
#1%
\else
%
% \lastskip and \lastpenalty cannot both be nonzero simultaneously.
% \whatsitskip = \lastskip
% \edef\lastskipmacro{\the\lastskip}
% \whatsitpenalty = \lastpenalty
%
% If \lastskip is nonzero, that means the last item was a
% skip. And since a skip is discardable, that means this
% -\whatsitskip glue we're inserting is preceded by a
% non-discardable item, therefore it is not a potential
% breakpoint, therefore no \nobreak needed.
% \ifx\lastskipmacro\zeroskipmacro
% \else
% \vskip-\whatsitskip
% \fi
%
% If \lastskip was zero, perhaps the last item was a penalty, and
% perhaps it was >=10000, e.g., a \nobreak. In that case, we want
% to re-insert the same penalty (values >10000 are used for various
% signals); since we just inserted a non-discardable item, any
% following glue (such as a \parskip) would be a breakpoint. For example:
% @deffn deffn-whatever
% @vindex index-whatever
% Description.
% would allow a break between the index-whatever whatsit
% and the "Description." paragraph.
\ifnum\whatsitpenalty>9999 \penalty\whatsitpenalty \fi
\else
% On the other hand, if we had a nonzero \lastskip,
% this make-up glue would be preceded by a non-discardable item
% (the whatsit from the \write), so we must insert a \nobreak.
\nobreak\vskip\whatsitskip
\fi
\fi}

% The index entry written in the file actually looks like
% \entry {sortstring}{page}{topic}
% or
% \entry {sortstring}{page}{topic}{subtopic}
% The texindex program reads in these files and writes files
% containing these kinds of lines:
% \initial {c}
% before the first topic whose initial is c
% \entry {topic}{pagelist}
% for a topic that is used without subtopics
% \primary {topic}
% for the beginning of a topic that is used with subtopics
% \secondary {subtopic}{pagelist}
% for each subtopic.

% Define the user-accessible indexing commands
% @findex, @vindex, @kindex, @cindex.

\def\findex {\fnindex}
\def\kindex {\kyindex}
\def\cindex {\cpindex}
\def\vindex {\vrindex}
\def\tindex {\tpindex}
\def\pindex {\pgindex}
\def\cindexsub {\begingroup\obeylines\cindexsub}
{\obeylines %
\gdef\cindexsub "#1" #2^^M\endgroup %
\dosubind{cp}{#2}{#1}}}

% Define the macros used in formatting output of the sorted index material.

% @printindex causes a particular index (the ??s file) to get printed.
% It does not print any chapter heading (usually an @unnumbered).
% \parseargdef\printindex{\begingroup
\dodebreak \chapheadingskip{10000}\%
%
\smallfonts \rm
\tolerance = 9500
\plainfrenchspacing
\everypar = {}% don't want the \kern\parindent from indentation suppression.
%
% See if the index file exists and is nonempty.
% Change catcode of \@ here so that if the index file contains
% \initial {[@}
% as its first line, TeX doesn't complain about mismatched braces
% (because it thinks @} is a control sequence).
\catcode`@ = 11
\openin 1 \jobname.#1s
\ifeof 1
% \enddoublecolumns gets confused if there is no text in the index,
% and it loses the chapter title and the aux file entries for the
% index. The easiest way to prevent this problem is to make sure
% there is some text.
\putwordIndexNonexistent
\else
%
% If the index file exists but is empty, then \openin leaves \ifeof
% false. We have to make TeX try to read something from the file, so
% it can discover if there is anything in it.
\read 1 to \temp
\ifeof 1
\putwordIndexIsEmpty
\else
% Index files are almost Texinfo source, but we use \ as the escape
% character. It would be better to use @, but that's too big a change
% to make right now.
\def\indexbackslash{\backslashcurfont}%
\catcode`\= 0
\escapechar = `\%
\begindoublecolumns
\input \jobname.#1s
\enddoublecolumns
\fi
\fi
\closein 1
\endgroup{}
%
% These macros are used by the sorted index file itself.
% Change them to control the appearance of the index.

\def\initial#1{{%
% Some minor font changes for the special characters.
\let\tentt=\sectt \let\tt=\sectt \let\sf=\sectt
%
% Remove any glue we may have, we'll be inserting our own.
\removelastskip
%
% We like breaks before the index initials, so insert a bonus.
\nobreak
\vskip 0pt plus 3\baselineskip
\penalty 0
\vskip 0pt plus -3\baselineskip
%
% Typeset the initial. Making this add up to a whole number of
% baselineskips increases the chance of the dots lining up from column
% to column. It still won't often be perfect, because of the stretch
% we need before each entry, but it's better.
%
% No shrink because it confuses \balancecolumns.
\vskip 1.67\baselineskip plus .5\baselineskip
\leftline{\secbf #1}%
% Do our best not to break after the initial.
\nobreak
\vskip .33\baselineskip plus .1\baselineskip
\}
%
\entry typesets a paragraph consisting of the text (#1), dot leaders, and
% then page number (#2) flushed to the right margin. It is used for index
% and table of contents entries. The paragraph is indented by \leftskip.
%
% A straightforward implementation would start like this:
%\def\entry#1#2{...
% But this freezes the catcodes in the argument, and can cause problems to
% @code, which sets - active. This problem was fixed by a kludge---
% ````` was active throughout whole index, but this isn't really right.
% The right solution is to prevent \entry from swallowing the whole text.
% --kasal, 21nov03
\def\entry{%
\begingroup
%
% Start a new paragraph if necessary, so our assignments below can't
% affect previous text.
\par
%
% Do not fill out the last line with white space.
\parfillskip = 0in
%
% No extra space above this paragraph.
\parskip = 0in
%
% Do not prefer a separate line ending with a hyphen to fewer lines.
\finalhyphenpenalty = 0
%
% \hangindent is only relevant when the entry text and page number
% don't both fit on one line. In that case, bob suggests starting the
% dots pretty far over on the line. Unfortunately, a large
% indentation looks wrong when the entry text itself is broken across
% lines. So we use a small indentation and put up with long leaders.
%
% \hangafter is reset to 1 (which is the value we want) at the start
% of each paragraph, so we need not do anything with that.
\hangindent = 2em
%
% When the entry text needs to be broken, just fill out the first line
% with blank space.
\rightskip = 0pt plus 1fil
%
% A bit of stretch before each entry for the benefit of balancing
% columns.
\vskip 0pt plus 1pt
%
% When reading the text of entry, convert explicit line breaks
% from @* into spaces. The user might give these in long section
% titles, for instance.
\def\*{\unskip\space\ignorespaces}\%\n\def\entrybreak{\hfil\break}\%\n% Swallow the left brace of the text (first parameter):
\afterassignment\doentry
\let\temp =
%
\def\doentry{\%\n\bgroup % Instead of the swallowed brace.
\noindent \aftergroup\finishentry
% And now comes the text of the entry.
%
\def\finishentry#1{\%\n% #1 is the page number.
%\%\n% The following is kludged to not output a line of dots in the index if
% there are no page numbers. The next person who breaks this will be
% cursed by a Unix daemon.
\setbox\boxA = \hbox{#1}\%
\ifdim\wd\boxA = 0pt %
\else
}
% If we must, put the page number on a line of its own, and fill out
% this line with blank space.  (The \hfil is overwhelmed with the
% fill leaders glue in \indexdotfill if the page number does fit.)
% \null\nobreak\indexdotfill % Have leaders before the page number.
%
% The `\' here is removed by the implicit \unskip that TeX does as
% part of (the primitive) \par.  Without it, a spurious underfull
% \hbox ensues.
% \pdfgettoks#1.%
% \the\toksA
% else
% #1%
% fi
% \fi
% \par
% \endgroup
%
% Like plain.tex's \dotfill, except uses up at least 1 em.
% \def\indexdotfill{\cleaders
% \hbox{$\mathsurround=0pt \mkern1.5mu.\mkern1.5mu$}\hskip 1em plus 1fill}
% \def\primary #1{
% \line{#1\hfil}}

% Define two-column mode, which we use to typeset indexes.
% Adapted from the TeXbook, page 416, which is to say,
% the manmac.tex format used to print the TeXbook itself.
% \catcode`\@=11
% \newbox\partialpage
\newdimen\doublecolumnhsize

\def\begindoublecolumns{\begingroup % ended by \enddoublecolumns
% Grab any single-column material above us.
\output = {%
%
% Here is a possibility not foreseen in manmac: if we accumulate a
% whole lot of material, we might end up calling this \output
% routine twice in a row (see the doublecol-lose test, which is
% essentially a couple of indexes with @setchapternewpage off). In
% that case we just ship out what is in \partialpage with the normal
% output routine. Generally, \partialpage will be empty when this
% runs and this will be a no-op. See the indexspread.tex test case.
\ifvoid\partialpage \else
  \onepageout{\pagecontents{\partialpage}}%
\fi
%
\global\setbox\partialpage = \vbox{%
% Unvbox the main output page.
\unvbox\PAGE
\kern-\topskip \kern\baselineskip
}%
%
\eject % run that output routine to set \partialpage
%
% Use the double-column output routine for subsequent pages.
\output = {\doublecolumnout}%
%
% Change the page size parameters. We could do this once outside this
% routine, in each of @smallbook, @afourpaper, and the default 8.5x11
% format, but then we repeat the same computation. Repeating a couple
% of assignments once per index is clearly meaningless for the
% execution time, so we may as well do it in one place.
%
% First we halve the line length, less a little for the gutter between
% the columns. We compute the gutter based on the line length, so it
% changes automatically with the paper format. The magic constant
% below is chosen so that the gutter has the same value (well, +/-1pt)
% as it did when we hard-coded it.
%
% We put the result in a separate register, \doublecolumnhsize, so we
% can restore it in \pagesofar, after \hsize itself has (potentially)
% been clobbered.
%
\doublecolumnhsize = \hsize
\advance\doublecolumnhsize by -.04154\hsize
\divide\doublecolumnhsize by 2
\hsize = \doublecolumnhsize
% Double the \vsize as well. (We don't need a separate register here, % since nobody clobbers \vsize.)
\vsize = 2\vsize
}

% The double-column output routine for all double-column pages except % the last.
%
\def\doublecolumnout{ %
\splittopskip=\topskip \splitmaxdepth=\maxdepth
% Get the available space for the double columns -- the normal % (undoubled) page height minus any material left over from the % previous page.
\dimen@ = \vsize
\divide\dimen@ by 2
\advance\dimen@ by -\ht\partialpage
%
% box0 will be the left-hand column, box2 the right.
\setbox0=\vsplit255 to\dimen@ \setbox2=\vsplit255 to\dimen@
\onepageout\pagesofar
\unvbox255
\penalty\outputpenalty
}

% Re-output the contents of the output page -- any previous material, % followed by the two boxes we just split, in box0 and box2.
\def\pagesofar{ %
\unvbox\partialpage
%
\hsize = \doublecolumnhsize
\wd0=\hsize \wd2=\hsize
\hbox to\pagewidth{\box0\hfil\box2}%
}

% All done with double columns.
\def\enddoublecolumns{ %
% The following penalty ensures that the page builder is exercised % _before_ we change the output routine. This is necessary in the % following situation:
%
% The last section of the index consists only of a single entry. % Before this section, \pagetotal is less than \pagegoal, so no % break occurs before the last section starts. However, the last % section, consisting of \initial and the single \entry, does not % fit on the page and has to be broken off. Without the following % penalty the page builder will not be exercised until \eject % below, and by that time we'll already have changed the output
% routine to the \balancecolumns version, so the next-to-last
% double-column page will be processed with \balancecolumns, which
% is wrong: The two columns will go to the main vertical list, with
% the broken-off section in the recent contributions. As soon as
% the output routine finishes, TeX starts reconsidering the page
% break. The two columns and the broken-off section both fit on the
% page, because the two columns now take up only half of the page
% goal. When TeX sees \eject from below which follows the final
% section, it invokes the new output routine that we've set after
% \balancecolumns below; \onpageout will try to fit the two columns
% and the final section into the vbox of \pageheight (see
% \pagebody), causing an overfull box.
%
% Note that glue won't work here, because glue does not exercise the
% page builder, unlike penalties (see The TeXbook, pp. 280-281).
\penalty0
%
\output = {%
% Split the last of the double-column material. Leave it on the
% current page, no automatic page break.
\balancecolumns
%
% If we end up splitting too much material for the current page,
% though, there will be another page break right after this \output
% invocation ends. Having called \balancecolumns once, we do not
% want to call it again. Therefore, reset \output to its normal
% definition right away. (We hope \balancecolumns will never be
% called on to balance too much material, but if it is, this makes
% the output somewhat more palatable.)
\global\output = {\onpageout{\pagecontents\PAGE}}%
}%
\eject
\endgroup % started in \begindoublecolumns
%
% \pagegoal was set to the doubled \vsize above, since we restarted
% the current page. We're now back to normal single-column
% typesetting, so reset \pagegoal to the normal \vsize (after the
% \endgroup where \vsize got restored).
\pagegoal = \vsize
}
%
% Called at the end of the double column material.
\def\balancecolumns{%
\setbox0 = \vbox{\unvbox255}% like \box255 but more efficient, see p.120.
\dimen@ = \ht0
\advance\dimen@ by \topskip
\advance\dimen@ by -\baselineskip
\divide\dimen@ by 2 % target to split to
\message{sectioning.}
% Chapters, sections, etc.

% Let's start with @part.
\outer\parseargdef{part}{\partzzz{#1}}
\def\partzzz#1{%  
\chapoddpage
\null
\vskip.3\vsize  % move it down on the page a bit
\begingroup
\noindent \titlefonts\rmisbold #1\par  % the text
\let\lastnode=\empty % no node to associate with
\writetocentry{part}{#1}{}  % but put it in the toc
\headingsoff  % no headline or footline on the part page
\chapoddpage
\endgroup
}

% \unnumberedno is an oxymoron. But we count the unnumbered
% sections so that we can refer to them unambiguously in the pdf
% outlines by their "section number". We avoid collisions with chapter
% numbers by starting them at 10000. (If a document ever has 10000
% chapters, we're in trouble anyway, I'm sure.)
\newcount\unnumberedno \unnumberedno = 10000
\newcount\chapno
\newcount\secno \secno=0
\newcount\subsecno \subsecno=0
\newcount\subsubsecno \subsubsecno=0

% This counter is funny since it counts through charcodes of letters A, B, ...
\newcount\appendixno \appendixno = `@%
%
% \def\appendixletter{\char\the\appendixno}
% We do the following ugly conditional instead of the above simple
% construct for the sake of pdftex, which needs the actual
% letter in the expansion, not just typeset.
%
% \def\appendixletter{%
  \ifnum\appendixno=`A
    \else\ifnum\appendixno=`B
      \else\ifnum\appendixno=`C
        \else\ifnum\appendixno=`D
          \else\ifnum\appendixno=`E
            \else\ifnum\appendixno=`F
              \else\ifnum\appendixno=`G
                \else\ifnum\appendixno=`H
                  \else\ifnum\appendixno=`I
                    \else\ifnum\appendixno=`J
                      \else\ifnum\appendixno=`K
                        \else\ifnum\appendixno=`L
                          \else\ifnum\appendixno=`M
                            \else\ifnum\appendixno=`N
                              \else\ifnum\appendixno=`O
                                \else\ifnum\appendixno=`P
                                  \else\ifnum\appendixno=`Q
                                    \else\ifnum\appendixno=`R
                                      \else\ifnum\appendixno=`S
                                        \else\ifnum\appendixno=`T
                                          \else\ifnum\appendixno=`U
                                            \else\ifnum\appendixno=`V
                                              \else\ifnum\appendixno=`W
                                                \else\ifnum\appendixno=`X
                                                  \else\ifnum\appendixno=`Y
                                                    \else\ifnum\appendixno=`Z
                                                      \else\char\the\appendixno
                                                        \fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fni
\def\thischapter{}\def\thischaptternum{}\def\thischapttername{}\def\thissection{}\def\thissectionnum{}\def\thissectionname{}

\newcount\absscelevel % used to calculate proper heading level
\newcount\secbase\secbase=0 % @raisesections/@lowersections modify this count

% @raisesections: treat @section as chapter, @subsection as section, etc.
\def\raisesections{\global\advance\secbase by -1}
\let\up=raisesections % original BFox name

% @lowersections: treat @chapter as section, @section as subsection, etc.
\def\lowersections{\global\advance\secbase by 1}
\let\down=lowersections % original BFox name

% we only have subsub.
\chardef\maxseclevel = 3
%
% A numbered section within an unnumbered changes to unnumbered too.
% To achieve this, remember the "biggest" unnum. sec. we are currently in:
\chardef\unnlevel = \maxseclevel
%
% Trace whether the current chapter is an appendix or not:
% \chapheadtype is "N" or "A", unnumbered chapters are ignored.
\def\chapheadtype{N}

% Choose a heading macro
% #1 is heading type
% #2 is heading level
% #3 is text for heading
\def\genhead#1#2#3{%
% Compute the abs. sec. level:
\absseclevel=#2
\advance\absseclevel by \secbase
% Make sure \absseclevel doesn't fall outside the range:
\ifndef \absseclevel < 0
\absseclevel = 0
\else
\ifndef \absseclevel > 3
\absseclevel = 3
\fi
\fi
% The heading type:
\def\headtype[#1]{%
\if\headtype U%
\ifnum \absseclevel < \unnlevel
  \chardef\unnlevel = \absseclevel
\fi
\else
  % Check for appendix sections:
  \ifnum \absseclevel = 0
    \edef\chapheadtype{\headtype}%
  \else
    \if \headtype A \if \chapheadtype N%
      \errmessage{@appendix... within a non-appendix chapter}%
    \fi\fi
  \fi
  \else
  % Check for numbered within unnumbered:
  \ifnum \absseclevel > \unnlevel
    \def\headtype{U}%
  \else
    \chardef\unnlevel = 3
  \fi
  \fi
  % Now print the heading:
  \if \headtype U%
    \ifcase\absseclevel
    \unnumberedzzz{#3}%
    \or \unnumberedseczzz{#3}%
    \or \unnumberedsubseczzz{#3}%
    \or \unnumberedsubsubseczzz{#3}%
    \fi
  \else
    \if \headtype A%
      \ifcase\absseclevel
      \appendixzzz{#3}%
      \or \appendixsectionzzz{#3}%
      \or \appendixsubseczzz{#3}%
      \or \appendixsubsubseczzz{#3}%
      \fi
    \else
      \ifcase\absseclevel
      \chapterzzz{#3}%
      \or \seczzz{#3}%
      \or \numberedsubseczzz{#3}%
      \or \numberedsubsubseczzz{#3}%
      \fi
    \fi
    \fi
  \fi
  \suppressfirstparagraphindent
\}
\% normally unnumhead0 calls unnumberedzzz:
\outer\parseargdef\unnumbered{\unnumhead0[#1]}
\def\unnumberedzzz#1{
  \global\secno=0 \global\subsecno=0 \global\subsubsecno=0
  \global\advance\unnumberedno by 1
  \%
  \%
  % This used to be simply \message{#1}, but TeX fully expands the
  % argument to \message. Therefore, if #1 contained @-commands, TeX
  % expanded them. For example, in @unnumbered The @cite{Book}', TeX
  % expanded @cite (which turns out to cause errors because \cite is meant
  % to be executed, not expanded).
  %
  % Anyway, we don't want the fully-expanded definition of @cite to appear
  % as a result of the \message, we just want `@cite' itself. We use
  % \the<toks register> to achieve this: TeX expands \the<toks> only once,
  % simply yielding the contents of <toks register>. (We also do this for
  % the toc entries.)
  \toks0 = {#1} \\
  \message{(\the\toks0)} \\
  \%
  \chapmacro{#1}{Ynothing}{\the\unnumberedno} \\
  %
  \global\let\section = \unnumberedsec \\
  \global\let\subsection = \unnumberedsubsec \\
  \global\let\subsubsection = \unnumberedsubsubsec \\
  }
%
\@centerchap is like @unnumbered, but the heading is centered.
\outer\parseargdef\centerchap{%
  \%
  % Well, we could do the following in a group, but that would break
  % an assumption that \chapmacro is called at the outermost level.
  % Thus we are safer this way:--kasal, 24feb04
  \let\centerparametersmaybe = \centerparameters \\
  \unnmhead0[#1] \\
  \let\centerparametersmaybe = \relax }
%
\@top is like @unnumbered.
\let\top\unnumbered

% Sections.
% \outer\parseargdef\numberedsec\{numhead1[#1]\}  % normally calls seczzz
\def\seczzz#1{\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1 \sectionheading[#1]{sec}{Ynumbered}{\the\chapno.\the\secno} %
}

% normally calls appendixsectionzzz:
\outer\parseargdef\appendixsection\{apphead1[#1]\}
\def\appendixsectionzzz#1{\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1 \sectionheading[#1]{sec}{Yappendix}{\appendixletter.\the\secno} %
}
\let\appendixsec\appendixsection

% Subsections.
% \outer\parseargdef\numberedsubsec\{numhead2[#1]\}  % normally calls subseczzz
\def\numberedsubseczzz#1{\global\subsubsecno=0 \global\advance\subsecno by 1 \sectionheading[#1]{subsec}{Ynumbered}{\the\chapno.\the\secno.\the\subsecno} %
}

% normally calls appendixsubseczzz:
\outer\parseargdef\appendixsubsec\{apphead2[#1]\}
\def\appendixsubseczzz#1{\global\subsubsecno=0 \global\advance\subsecno by 1 \sectionheading[#1]{subsec}{Yappendix}{\appendixletter.\the\secno.\the\subsecno} %
}

% normally calls unnumberedsubseczzz:
\outer\parseargdef\unnumberedsubsec\{unnmhead2[#1]\}
\def\unnumberedsubseczzz#1{\global\subsubsecno=0 \global\advance\subsecno by 1 \sectionheading[#1]{subsec}{Ynothing}{\the\unnumberedno.\the\secno.\the\subsecno} %
}
% Subsections.
%
% normally numberedsubsubsection:
\outer\parseargdef{numberedsubsubsection}{\numhead3{#1}}
\def{numberedsubsubsection#1}{\global\advance\subsecno by 1
% \sectionheading{#1}{subsubsection}{Ynumbered}%
\the\chapno.\the\secno.\the\subsecno.\the\subsubsectionno}%
}

% normally appendixsubsubsection:
\outer\parseargdef{appendixsubsubsection}{\apphead3{#1}}
\def{appendixsubsubsection#1}{\global\advance\subsecno by 1
% \sectionheading{#1}{subsubsection}{Yappendix}%
\the\appendixletter.\the\secno.\the\subsecno.\the\subsubsectionno}%
}

% normally unnumberedsubsubsection:
\outer\parseargdef{unnumberedsubsubsection}{\unnmhead3{#1}}
\def{unnumberedsubsubsection#1}{\global\advance\subsecno by 1
% \sectionheading{#1}{subsubsection}{Ynothing}%
\the\unnnumberedno.\the\secno.\the\subsecno.\the\subsubsectionno}%
}

% These macros control what the section commands do, according
% to what kind of chapter we are in (ordinary, appendix, or unnumbered).
% Define them by default for a numbered chapter.
\let\section = numberedsection
\let\subsection = numberedsubsection
\let\subsubsection = numberedsubsubsection

% Define @majorheading, @heading and @subheading

\def{majorheading}{%
\{\advance\chapheadingskip by 10pt \chapbreak \}%
\parsearg\chapheading}

\def{chapheading}{\chapbreak \parsearg\chapheading}
\def{chapheading#1}{\ vbox\{\chapfonts \raggedtitlesettings \#1\par\%
\nobreak\bigskip \nobreak \suppressfirstparagraphindent
}
% These macros generate a chapter, section, etc. heading only
% (including whitespace, linebreaking, etc. around it),
% given all the information in convenient, parsed form.

% Args are the skip and penalty (usually negative)
\def\dobreak#1#2{\par\ifdim\lastskip<#1\removelastskip\penalty#2\vskip#1\fi}

% Parameter controlling skip before chapter headings (if needed)
\newskip\chapheadingskip

% Define plain chapter starts, and page on/off switching for it.
\def\chapbreak{\dobreak \chapheadingskip {-4000}}
\def\chappager{\par\vfill\supereject}
% Because \domark is called before \chapoddpage, the filler page will
% get the headings for the next chapter, which is wrong. But we don’t
% care — we just disable all headings on the filler page.
\def\chapoddpage{%
  \chappager
  \ifodd\pageno \else
    \begingroup
      \headingsoff
      \null
      \chappager
    \endgroup
  \fi
}
\def\setchapternewpage #1 {\csname CHAPPAG#1\endcsname}

\def\CHAPPAGoff{%
  \global\let\contentalignmacro = \chappager
  \global\let\chapsepmacro=\chapbreak
  \global\let\pagealignmacro=\chappager}

\def\CHAPPAGon{%
  \global\let\contentalignmacro = \chappager
  \global\let\chapsepmacro=\chapbreak
  \global\let\pagealignmacro=\chappager
  \global\def\HEADINGSon{\HEADINGSsingle} }
% entry, and \donoderef resets it to empty.
\writetocentry{\tocentry}{#1}{#3}%
%
% For pdftex, we have to write out the node definition (aka, make
% the pdfdest) after any page break, but before the actual text has
% been typeset. If the destination for the pdf outline is after the
% text, then jumping from the outline may wind up with the text not
% being visible, for instance under high magnification.
\donoderef{#2}%
%
% Typeset the actual heading.
\nobreak % Avoid page breaks at the interline glue.
\vbox{\eregedtitlesettings \hangindent=\wd0 \centerparametersmaybe
\unhbox0 #1\par}%

\nobreak\bigsip % no page break after a chapter title
\nobreak
%
% @centerchap -- centered and unnumbered.
\def\centerparametersmaybe = \relax
\def\centerparameters{%
\advance\rightskip by 3\rightskip
\leftskip = \rightskip
\parfillskip = 0pt
}\centerparameters
%
% I don't think this chapter style is supported any more, so I'm not
% updating it with the new noderef stuff. We'll see. --karl, 11aug03.
%\def\setchapterstyle #1 {\csname CHAPF#1\endcsname}
%\def\unnchfopen #1{%
\chapoddpage
\vbox{\chapfonts \eregedtitlesettings #1\par}%
\nobreak\bigsip\nobreak
}%
\def\chfopen #1#2{\chapoddpage {\chapfonts
\vbox to 3in{\vfil \hbox to\hsize{\hfil #2} \vbox to\hsize{\hfil #1 \vfil}}}%
\par\penalty 5000 \%}
\def\centerchfopen #1{%
\chapoddpage
\vbox{\chapfonts \eregedtitlesettings \hfill #1 \hfill}%
\nobreak\bigsip \nobreak
}%
\def\CHAPFopen{%
\global\let\chapmacro=\chfopen
\global\let\centerchapmacro=\centerchfopen

% Section titles. These macros combine the section number parts and call
% the generic \sectionheading to do the printing.
\newskip\secheadingskip
\def\secheadingbreak\{\dobreak \secheadingskip[-1000] \}

% Subsection titles.
\newskip\subsecheadingskip
\def\subsecheadingbreak\{\dobreak \subsecheadingskip[-500] \}

% Subsubsection titles.
\def\subsubsecheadingskip\{\subsecheadingskip \}
\def\subsubsecheadingbreak\{\subsecheadingbreak \}

% Print any size, any type, section title.
% #1 is the text, #2 is the section level (sec/subsec/subsubsec), #3 is
% the section type for xrefs (Ynumbered, Ynothing, Yappendix), #4 is the
% section number.
% \def\seckeyword{sec}
% \def\sectionheading#1#2#3#4{%
% \checkenv{}% should not be in an environment.
% \% Switch to the right set of fonts.
% \csname #2fonts\endcsname \rmisbold
% \% \def\sectionlevel{#2}\
% \% \def\temptype{#3}\
% \% \ Insert first mark before the heading break (see notes for \domark).
% \let\prevsectiondefs=\lastsectiondefs
% \ifx\temptype\Ynothingkeyword
% \gdef\sectionlevel{#2}\
% \gdef\ emptype{#3}\
% \% \ Insert first mark before the heading break (see notes for \domark).
% \let\prevsectiondefs=\lastsectiondefs
% \ifx\sectionlevel\seckeyword
% \gdef\lastsectiondefs{\gdef\thissectionname{#1}\gdef\thissectionnum{}%}
% \gdef\ thissection{\thissectionname}%
% \fi
% \else\ifx\emptype\Yomitfromtockeyword
% \% Don't redefine \thissection.
% \else\ifx\emptype\Yappendixkeyword
% \fi
% \fi
% \fi
% \fi
%
\toks0=\{#1\}%
\xdef\lastsectiondefs{%
  \gdef\noexpand\thissectionname{\the\toks0}%
  \gdef\noexpand\thissectionnum{#4}%
  \% \noexpand\putwordSection avoids expanding indigestible
  \% commands in some of the translations.
  \gdef\noexpand\thissection{\noexpand\putwordSection{}}

}\noexpand\thissectionnum:
探索了旧版本的代码。
\else\ffx\empty\Yomitfromtoc\keyword
% for @headings -- no section number, don't include in toc, 
% and don't redefine \lastsection.
\setbox0 = \hbox{}%
\def\toctype{omit}%
\let\sectionlevel=\empty
\else\ffx\empty\Yappendix\keyword
\setbox0 = \hbox{#4\enspace}%
\def\toctype{app}%
\gdef\lastsection{#1}%
\else
\setbox0 = \hbox{#4\enspace}%
\def\toctype{num}%
\gdef\lastsection{#1}%
\fi
%
% Write the toc entry (before \donoderef).  See comments in \chapmacro.
writetocentry{\toctype\sectionlevel}{#1}{#4}%
%
% Write the node reference (= pdf destination for pdftex).
% Again, see comments in \chapmacro.
\donoderef[#3]%
%
% Interline glue will be inserted when the vbox is completed.
% That glue will be a valid breakpoint for the page, since it'll be 
% preceded by a whatsit (usually from the \donoderef, or from the 
% \writetocentry if there was no node).  We don't want to allow that 
% break, since then the whatsits could end up on page n while the 
% section is on page n+1, thus toc/etc. are wrong.  Debian bug 276000.
\nobreak
%
% Output the actual section heading.
\vbox{\hyphenpenalty=10000 \tolerance=5000 \parindent=0pt \ptexraggedright 
  \hangindent=wd0  % zero if no section number
  \unhbox0 #1}%
%
% Add extra space after the heading -- half of whatever came above it.
% Don't allow stretch, though.
\kern .5 \csname #2headingskip\endcsname
%
% Do not let the kern be a potential breakpoint, as it would be if it 
% was followed by glue.
\nobreak
%
% We'll almost certainly start a paragraph next, so don't let that 
% glue accumulate.  (Not a breakpoint because it's preceded by a 
% discardable item.)  However, when a paragraph is not started next 
% (\startdefun, \cartouche, \center, etc.), this needs to be wiped out
or the negative glue will cause weirdly wrong output, typically
obscuring the section heading with something else.
\vskip-\parskip
%
% This is so the last item on the main vertical list is a known
% \penalty > 10000, so \startdefun, etc., can recognize the situation
% and do the needful.
\penalty 10001
}

\message{toc,}
% Table of contents.
\newwrite\tocfile

% Write an entry to the toc file, opening it if necessary.
% Called from @chapter, etc.
%
% Example usage: \writetocentry{sec}{Section Name}{\the\chapno.\the\secno}
% We append the current node name (if any) and page number as additional
% arguments for the \{chap,sec,...\}entry macros which will eventually
% read this.  The node name is used in the pdf outlines as the
% destination to jump to.
%
% We open the .toc file for writing here instead of at @setfilename (or
% any other fixed time) so that @contents can be anywhere in the document.
% But if #1 is `omit', then we don't do anything.  This is used for the
% table of contents chapter openings themselves.
%
\newif\iftocfileopened
\def\omitkeyword{omit}%
%
\def\writetocentry#1#2#3{%
  \edef\writetoctype{#1}%
  \ifx\writetoctype\omitkeyword \else
     \iftocfileopened\else
      \immediate\openout\tocfile = \jobname.toc
     \fi
    \iflinks
      {\atdummies
       \edef\temp{\write\tocfile{@entry {#2} {#3} {\lastnode} {\noexpand\folio}}}%}
       \temp
      }%
    \fi
  \fi
%
\fi

% Tell \shipout to create a pdf destination on each page, if we're
% writing pdf. These are used in the table of contents. We can't
% just write one on every page because the title pages are numbered
% 1 and 2 (the page numbers aren't printed), and so are the first
% two pages of the document. Thus, we'd have two destinations named
% `1', and two named `2'.
% 
% \ifpdf \global\pdfmakepagedesttrue \fi
%
%
% These characters do not print properly in the Computer Modern roman
% fonts, so we must take special care. This is more or less redundant
% with the Texinfo input format setup at the end of this file.
% 
% \def\activecatcodes{% %
% \catcode`\"=active
% \catcode`\$=active
% \catcode`\<=active
% \catcode`\>=active
% \catcode`\\=active
% \catcode`\^=active
% \catcode`\_=active
% \catcode`\=-active
% \catcode`\-=active
% }
%
%
% Read the toc file, which is essentially Texinfo input.
% \def\readtocfile{% %
% \setupdatafile
% \activecatcodes
% \input \tocreadfilename
% }
% 
% \newskip\contentsrightmargin \contentsrightmargin=1in
% \newcount\savepageno
% \newcount\lastnegativepageno \lastnegativepageno = -1
%
% Prepare to read what we've written to \tocfile.
% %
% \def\startcontents#1{% %
% % If @setchapternewpage on, and @headings double, the contents should
% % start on an odd page, unlike chapters. Thus, we maintain
% % \contentsalignmacro in parallel with \pagealignmacro.
% % From: Torbjorn Granlund <tege@matematik.su.se>
% \contentsalignmacro
% \immediate\closeout\tocfile
% Don't need to put `Contents' or `Short Contents' in the headline.
% It is abundantly clear what they are.
\chapmacro{#1}{Yomitfromtoc}{ }
%
\savepageno = \pageno
\begingroup % Set up to handle contents files properly.
  \raggedbottom % Worry more about breakpoints than the bottom.
  \advance\hsize by -\contentsrightmargin % Don't use the full line length.
%
% Roman numerals for page numbers.
  \ifnum \pageno>0 \global\pageno = \lastnegativepageno \fi
\}

% redefined for the two-volume lispref. We always output on
% \jobname.toc even if this is redefined.
%
\def\tocreadfilename{\jobname.toc}

% Normal (long) toc.
%
\def\contents{%
  \startcontents{\putwordTOC}%
  \openin 1 \tocreadfilename\space
  \ifeof 1 \else
    \readtocfile
  \fi
  \vfill \eject
  \contentsalignmacro % in case \setchapternewpage odd is in effect
  \ifeof 1 \else
    \pdfmakeoutlines
  \fi
  \closein 1
\endgroup
  \lastnegativepageno = \pageno
  \global\pageno = \savepageno

% And just the chapters.
\def\summarycontents{%
  \startcontents{\putwordShortTOC}%
  \let\partentry = \shortpartentry
  \let\numchapentry = \shortchapentry
  \let\appentry = \shortchapentry
  \let\unnchapentry = \shortunnchapentry
  \secfonts

% The arguments in between are the chapter number, section number, ...

% Parts, in the main contents. Replace the part number, which doesn't
% exist, with an empty box. Let's hope all the numbers have the same width.
% Also ignore the page number, which is conventionally not printed.
\def\numeralbox{\setbox0=\hbox{8}\hbox to \wd0{\hfil}}
\def\partentry#1#2#3#4{\dochapentry{\numeralbox\labelspace#1}{}{}
}

% Parts, in the short toc.
\def\shortpartentry#1#2#3#4{\penalty-300
\vskip.5\baselineskip plus.15\baselineskip minus.1\baselineskip
\shortchapentry{{\bf #1}}{\numeralbox}{}{}%}

% Chapters, in the main contents.
\def\numchapentry#1#2#3#4{\dochapentry{#2\labelspace#1}{#4}}
\def\shortchapentry#1#2#3#4{\tocentry{\shortchaplabel{#2}\labelspace #1}{\doshortpageno\bgroup#4\egroup}}

% Appendices, in the main contents.
\def\appendixbox#1{\setbox0 = \hbox{\putwordAppendix{} M} \hbox to \wd0{\putwordAppendix{} #1\hss}}
\def\appentry#1#2#3#4{\dochapentry{\appendixbox{#2}\labelspace#1}{#4}}

% Unnumbered chapters.
\def\unnchapentry#1#2#3#4{\dochapentry{#1}{#4}}
\def\shortunnchapentry#1#2#3#4{\tocentry{#1}{\doshortpageno\bgroup#4\egroup}}

% Sections.
\def\numsecentry#1#2#3#4{\dosecentry{#2\labelspace#1}{#4}}
\def\appsecentry=\numsecentry
\def\unnsecentry#1#2#3#4{\dosecentry{#1}{#4}}

% Subsections.
\def\numsubsecentry#1#2#3#4{\dosubsecentry{#2\labelspace#1}{#4}}
\def\appsubsecentry=\numsubsecentry
\def\unnsubsecentry#1#2#3#4{\dosubsecentry{#1}{#4}}
% And subsubsections.
def\numsubsubsecentry#1#2#3#4{\dosubsubsecentry{#2\labelspace#1}{#4}}
def\appsbsubsecentry=\numsubsubsecentry
def\numsubsubsecentry#1#2#3#4{\dosubsubsecentry{#1}{#4}}

% This parameter controls the indentation of the various levels.
% Same as \defaultparindent.
\newdimen\tocindent \tocindent = 15pt

% Now for the actual typesetting. In all these, #1 is the text and #2 is the
% page number.
% If the toc has to be broken over pages, we want it to be at chapters
% if at all possible; hence the \penalty.
def\dochapentry#1#2{\penalty-300 \vskip1\baselineskip plus.33\baselineskip minus.25\baselineskip 
  \begingroup 
  \chapentryfonts 
  \tocentry{#1}{\dopageno\bgroup#2\egroup} \endgroup 
  \nobreak\vskip .25\baselineskip plus.1\baselineskip 
} 
def\dosecentry#1#2{\begingroup
  \secentryfonts \leftskip=\tocindent 
  \tocentry{#1}{\dopageno\bgroup#2\egroup} \endgroup}
def\dosubsecentry#1#2{\begingroup
  \subsecentryfonts \leftskip=2\tocindent 
  \tocentry{#1}{\dopageno\bgroup#2\egroup} \endgroup}
def\dosubsubsecentry#1#2{\begingroup
  \subsubsecentryfonts \leftskip=3\tocindent 
  \tocentry{#1}{\dopageno\bgroup#2\egroup} \endgroup}

% We use the same \entry macro as for the index entries.
def\tocentry = \entry

% Space between chapter (or whatever) number and the title.
def\labelspace{\hskip1em \relax}
def\dopageno#1{{\rm #1}}
def\doshortpageno#1{{\rm #1}}
def\chapentryfonts{\secfonts \rm}
\expandafter \let \csname top \endcsname = \ptextop \% outer
\let \frenchspacing = \plainfrenchspacing
\def \endldots {\mathinner {\ldots \ldots \ldots \ldots}} \%
\def \enddots {\relax \ifmmode \endldots \else \$\mathsurround = 0pt \endldots \$ \fi} \%
\def \@ { @} \%
%
% There is no need to define \Etex.

% Define @lisp ... @end lisp.
% @lisp environment forms a group so it can rebind things,
% including the definition of @end lisp (which normally is erroneous).

% Amount to narrow the margins by for @lisp.
\newskip \lispnarrowing
\lispnarrowing = 0.4in

% This is the definition that ^\^M gets inside @lisp, @example, and other
% such environments. \null is better than a space, since it doesn’t
% have any width.
\def \lisppar {\null \endgraf}

% This space is always present above and below environments.
\newskip \envskipamount
\envskipamount = 0pt

% Make spacing and below environment symmetrical. We use \parskip here
% to help in doing that, since in @example-like environments \parskip
% is reset to zero; thus the afterenvbreak inserts no space -- but the
% start of the next paragraph will insert \parskip.
%
\def \aboveenvbreak {\%
% =10000 instead of <10000 because of a special case in \itemzzz and
% \sectionheading, q.v.
  \ifnum \lastpenalty = 10000 \else
  \advance \envskipamount by \parskip
  \endgraf
  \ifdim \lastskip < \envskipamount
  \removelastskip
  \% it’s not a good place to break if the last penalty was \nobreak
  \% or better ... 
  \ifnum \lastpenalty < 10000 \penalty -50 \fi
  \vskip \envskipamount
  \fi
  \fi
\}
\let \afterenvbreak = \aboveenvbreak

% \nonarrowing is a flag. If "set", @lisp etc don’t narrow margins; it will
% also clear it, so that its embedded environments do the narrowing again.
\let\nonarrowing=\relax

% \cartouche ... \end cartouche: draw rectangle w/rounded corners around
% environment contents.
\font\circle=lcircle10
\newdimen\circthick
\newdimen\cartouter\newdimen\cartinner
\newskip\normbskip\newskip\normpskip\newskip\normlskip
\circthick=\fontdimen8\circle
%
\def\ctl{{\circle\char'013\hskip -6pt}}% 6pt from pl file: 1/2 charwidth
\def\ctr{{\hskip 6pt\circle\char'010}}
\def\cbl{{\circle\char'012\hskip -6pt}}
\def\cbr{{\hskip 6pt\circle\char'011}}
\def\carttop{\hbox to \cartouter{\hskip\lskip\ctl\leaders\hrule height\circthick\hfill\ctr
\hskip\rskip}}
\def\cartbot{\hbox to \cartouter{\hskip\lskip\cbl\leaders\hrule height\circthick\hfill\cbr
\hskip\rskip}}
%
\newskip\lskip\newskip\rskip
\envdef\cartouche{%
\ifhmode\par\fi % can't be in the midst of a paragraph.
\startsavinginserts
\hskip=\leftskip \skip=\rightskip
\leftskip=0pt\rightskip=0pt % we want these *outside*.
\cartinner=\hsize \advance\cartinner by-\lskip
\advance\cartinner by-\rskip
\cartouter=\hsize
\advance\cartouter by 18.4pt% allow for 3pt kerns on either
% side, and for 6pt waste from
% each corner char, and rule thickness
\normbskip=\baselineskip \normpskip=\parskip \normlskip=\lineskip
% Flag to tell @lisp, etc., not to narrow margin.
\let\nonarrowing=t%
%
% If this cartouche directly follows a sectioning command, we need the
% \parskip glue (backspaced over by default) or the cartouche can
% collide with the section heading.
\ifnum\lastpenalty>10000 \wskip\parskip \penalty\lastpenalty \fi%
\bbox\bgroup
 %baselineskip=0pt\parskip=0pt\lineskip=0pt
 \carttop
 \bbox\bgroup
\begingroup
\obeyspaces
% We want to swallow spaces (but not other tokens) after the fake
% \indent in our nonfill-environments, where spaces are normally
% active and set to \tie, resulting in them not being ignored after
% \indent.
\gdef\nonfillindent{\futurelet\temp\nonfillindentcheck}%
\gdef\nonfillindentcheck{%
  \ifx\temp%
    \expandafter\nonfillindentgobble%
  \else%
    \leavevmode\nonfillindentbox%
  \fi%
}%
\endgroup
\def\nonfillindentgobble#1{\nonfillindent}
\def\nonfillindentbox{\hbox to \nonfillparindent{\hss}}

% If you want all examples etc. small: \set dispenvsize small.
% If you want even small examples the full size: \set dispenvsize nosmall.
% This affects the following displayed environments:
% \example, \display, \format, \lisp
%
\def\smallword{\small}
\def\nosmallword{\nosmall}
\let\SETdispenvsize\relax
\def\setnormaldispenv{%
  \ifx\SETdispenvsize\smallword
    % end paragraph for sake of leading, in case document has no blank
    % line. This is redundant with what happens in \aboveenvbreak, but
    % we need to do it before changing the fonts, and it’s inconvenient
    % to change the fonts afterward.
    \ifnum \lastpenalty=10000 \else \endgraf \fi
    \smallexamplefonts \rm
  \fi
}%
\def\setsmalldispenv{%
  \ifx\SETdispenvsize\nosmallword
    \else
      \ifnum \lastpenalty=10000 \else \endgraf \fi
      \smallexamplefonts \rm
  \fi
}%
% We often define two environments, @foo and @smallfoo.
% Let’s do it in one command. #1 is the env name, #2 the definition.
\def\makedispenvdef#1#2{% \
\expandafter\envdef\csname#1\endcsname {\setnormaldispnv #2}% \
\expandafter\envdef\csname small#1\endcsname {\setsmalldispnv #2}% \
\expandafter\let\csname E#1\endcsname \aftersmallenvbreak \
\expandafter\let\csname Esmall#1\endcsname \afterenvbreak 
}\end{quote}

% Define two environment synonyms (#1 and #2) for an environment. \
\def\maketwodispenvdef#1#2#3{% \
\makedispenvdef{#1}{#3}\
\makedispenvdef{#2}{#3}\
\}
\end{quote}

% @lisp: indented, narrowed, typewriter font; 
% @example: same as @lisp. 
% @smallexample and @smalllisp: use smaller fonts. 
% Originally contributed by Pavel@xerox. 
% 
\maketwodispenvdef{lisp}{example}{% \
\nonfillstart \
\tt\setupmarkupstyle{example}\% \
\let\kbdfont = \kbdexamplefont % Allow @kbd to do something special. \
\gobble \% eat return 
}\end{quote}

% @display/@smalldisplay: same as @lisp except keep current font. 
% 
\maketwodispenvdef{display}{% \
\nonfillstart \
\gobble 
}\end{quote}

% @format/@smallformat: same as @display except don't narrow margins. 
% 
\maketwodispenvdef{format}{% \
\let\nonarrowing = t\% \
\nonfillstart \
\gobble 
}\end{quote}

% @flushleft: same as @format, but doesn't obey \SETdispnvsize. 
\envdef\flushleft{% \
\let\nonarrowing = t\% \
\nonfillstart \
\gobble 
}\end{quote}

\let\Eflushleft = \afterenvbreak
% @flushright.
%
\envdef\flushright{%
\let\nonarrowing = t%
\nonfillstart
\advance\leftskip by 0pt plus 1fillrelax
\gobble
}
\let\Eflushright = \afterenvbreak

% @raggedright does more-or-less normal line breaking but no right
% justification.  From plain.tex.
\envdef\raggedright{%
\rightskip0pt plus2em \spaceskip.3333em \xspaceskip.5em\relax
}
\let\Eraggedright\par

\envdef\raggedleft{%
\parindent=0pt \leftskip0pt plus2em
\spaceskip.3333em \xspaceskip.5em \parfillskip=0pt
\hbadness=10000 % Last line will usually be underfull, so turn off
 % badness reporting.
}
\let\Eraggedleft\par

\envdef\raggedcenter{%
\parindent=0pt \rightskip0pt plus1em \leftskip0pt plus1em
\spaceskip.3333em \xspaceskip.5em \parfillskip=0pt
\hbadness=10000 % Last line will usually be underfull, so turn off
 % badness reporting.
}
\let\Eraggedcenter\par

% @quotation does normal linebreaking (hence we can't use \nonfillstart)
% and narrows the margins. We keep \parskip nonzero in general, since
% we're doing normal filling. So, when using \aboveenvbreak and
% \afterenvbreak, temporarily make \parskip 0.
%
\makedispenvdef{quotation}{\quotationstart}
%
\def\quotationstart{%
\indentedblockstart % same as \indentedblock, but increase right margin too.
\fx\nonarrowing\relax
 \advance\rightskip by \dispnarrowing
\fi
\parsearg\quotationlabel
% We have retained a nonzero parskip for the environment, since we're doing normal filling.
%
\def\Equotation{%\par
\ifx\quotationauthor\thisisundefined\else
  % indent a bit.
  \leftline{\kern 2\leftskip \sl ---\quotationauthor}\%
\fi
{\parskip=0pt \afterenvbreak}\%
}
\def\Esmallquotation{\Equotation}
% If we're given an argument, typeset it in bold with a colon after.
\def\quotationlabel#1{%\def\temp{#1}\%\def\temp\empty\else
  {\bf #1: }%
\fi
}
%
% @indentedblock is like @quotation, but indents only on the left and has no optional argument.
%
makedispenvdef{indentedblock}{\indentedblockstart}
%
\def\indentedblockstart{%\parskip=0pt \aboveenvbreak}% because \aboveenvbreak inserts \par
\parindent=0pt
%
% @cartouche defines \nonarrowing to inhibit narrowing at next level down.
\ifx\nonarrowing\relax
  \advance\leftskip by \lispnarrowing
  \exdentamount = \lispnarrowing
\else
  \let\nonarrowing = \relax
\fi
%
% Keep a nonzero parskip for the environment, since we're doing normal filling.
%
\def\Eindentedblock{%\par
{\parskip=0pt \afterenvbreak}\%
}
\def\Esmallindentedblock{\Eindentedblock}
% LaTex-like @verbatim...@end verbatim and @verb{<char>...<char>}%
% If we want to allow any <char> as delimiter,
% we need the curly braces so that makeinfo sees the @verb command, eg:
% `@verbx...x' would look like the `@verb' command. --janneke@gnu.org
%
%
% [Knuth] p. 344; only we need to do the other characters Texinfo sets
% active too. Otherwise, they get lost as the first character on a
% verbatim line.
\def\dospecials{%
\do\do\do\do\do\do\do\do\&\%
\do\#\do\##\do\^^k\do\_\do\&\do\%
\do\do\do\do\do\do\do\do\%
% Don't do the quotes -- if we do, @set txicodequoteundirected and
% @set txicodequotebacktick will not have effect on @verb and
% @verbatim, and ?' and !' ligatures won't get disabled.
%\do\do\do\%
}%
%
% [Knuth] p. 380
\def\uncatcodespecials{%
\def\do##1{\catcode`##1=other}\dospecials}
%
% Setup for the @verb command.
%
% Eight spaces for a tab
\begingroup
\catcode`\^^I=\active
\gdef\tabeightspaces{\catcode`\^^I=\active\def\^^I{\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\n
% Setup for the @verbatim environment
%
% Real tab expansion.
\newdimen\tabw \setbox0=\hbox{\tt\space} \tabw=8\wd0 % tab amount
%
% We typeset each line of the verbatim in an \hbox, so we can handle
% tabs. The \global is in case the verbatim line starts with an accent,
% or some other command that starts with a begin-group. Otherwise, the
% entire \verbbox would disappear at the corresponding end-group, before
% it is typeset. Meanwhile, we can't have nested verbatim commands
% (can we?), so the \global won't be overwriting itself.
\newbox\verbbox
\def\starttabbox{\global\setbox\verbbox=\hbox{\egroup}}
%
\begingroup
\catcode`\^^I=\active
\gdef\tabexpand{\catcode`\^^I=\active
\def\tabexpand\^^I{\leavevmode\egroup
\dimen\verbbox=\wd\verbbox % the width so far, or since the previous tab
\divide\dimen\verbbox by\tabw
\multiply\dimen\verbbox by\tabw % compute previous multiple of \tabw
\advance\dimen\verbbox by\tabw % advance to next multiple of \tabw
\wd\verbbox=\dimen\verbbox \box\verbbox \starttabbox
}}%
}
\endgroup
%
% start the verbatim environment.
\def\setupverbatim{\let\nonarrowing = t%
\nonfillstart
\tt % easiest (and conventionally used) font for verbatim
\def\par{\leavevmode\egroup\box\verbbox\endgraf}%
\tabexpand
\setupmarkupstyle{verbatim}%
% Respect line breaks,
% print special symbols as themselves, and
% make each space count.
% Must do in this order:
\obeylines \uncatcodespecials \sepspaces
\everypar{\starttabbox}%
}
%
% Do the @verb magic: verbatim text is quoted by unique
% delimiter characters. Before first delimiter expect a
% right brace, after last delimiter expect closing brace:
%
% \def\doverb'{'<char>#1<char>'}'{#1}
%
% [Knuth] p. 382; only eat outer {}
\begingroup
\catcode`[=1\catcode`]=2\catcode`\{=\other\catcode`\}=\other
\gdef\doverb{#1[\def\next##1#1}[##1\endgroup]\next]
\endgroup
%
\def\verb{\begingroup\setupverb\doverb}
%
%
% Do the @verbatim magic: define the macro \doverbatim so that
% the (first) argument ends when '@end verbatim' is reached, ie:
%
% \def\doverbatim#1@end verbatim{#1}
%
% For Texinfo it's a lot easier than for LaTeX,
% because texinfo's \verbatim doesn't stop at '\end{verbatim}':
% we need not redefine '\', '{' and '}'.
%
% Inspired by LaTeX's verbatim command set [latex.ltx]
%
\begingroup
\catcode`\ =\active
\obeylines %
% ignore everything up to the first ^^M, that's the newline at the end
% of the @verbatim input line itself. Otherwise we get an extra blank
% line in the output.
\xdef\doverbatim#1^^M#2@end verbatim{#2\noexpand\end\gobble verbatim}%
% We really want {...\end verbatim} in the body of the macro, but
% without the active space; thus we have to use \xdef and \gobble.
\endgroup
%
\envdef\verbatim{%
\setupverbatim\doverbatim
}
\let\Everbatim = \afterenvbreak

% @verbatiminclude FILE - insert text of file in verbatim environment.
%
\def\verbatiminclude{\parseargusing\filenamecatcodes\doverbatiminclude}
%
\def\doverbatiminclude#1{%
{%
\makevalueexpandable
\setupverbatim
\indexnofonts
% Allow `@@' and other weird things in file names.

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% a break between a section heading and a defun.
%
% As a further refinement, we avoid "club" headers by signalling
% with penalty of 10003 after the very first @deffn in the
% sequence (see above), and penalty of 10002 after any following
% @def command.
\ifnum\lastpenalty=10002 \penalty2000 \else \defunpenalty=10002 \fi
%
% Similarly, after a section heading, do not allow a break.
% But do insert the glue.
\medskip \% preceded by discardable penalty, so not a breakpoint
\fi
%
\parindent=0in
\advance\leftskip by \defbodyindent
\exdentamount=\defbodyindent
}

\def\dodefunx#1{%
% First, check whether we are in the right environment:
\checkenv#1%
%
% As above, allow line break if we have multiple x headers in a row.
% It's not a great place, though.
\ifnum\lastpenalty=10002 \penalty3000 \else \defunpenalty=10002 \fi
%
% And now, it's time to reuse the body of the original defun:
\expandafter\gobbledefun#1%
%
% Some of the @defun-type tags do not enable magic parentheses,
% rendering the following check redundant. But we don't optimize.
\checkparencounts
}

\def\gobbledefun#1\startdefun{}

% \printdefunline \deffnheader{text}
%
\def\printdefunline#1#2{%
\begingroup
% call \deffnheader:
#1#2 \endheader
% common ending:
\interlinepenalty = 10000
\advance\rightskip by 0pt plus 1fil\relax
\endgraf
\nobreak\vskip \parskip
\penalty\defunpenalty \% signal to \startdefun and \dodefunx
% Some of the @defun-type tags do not enable magic parentheses,
% rendering the following check redundant. But we don't optimize.
\checkparencounts
\endgroup
}
% \makedefun{deffn} creates \deffn, \deffnx and \Edeffn;
% the only thing remaining is to define \deffnheader.
%
\def\makedefun#1{\expandafter\let\csname E#1\endcsname = \Edefun
\edef\temp{\noexpand\domakedefun\makecsname{#1}\makecsname{#1x}\makecsname{#1header}}\temp}
%
% \domakedefun \deffn \deffnx \deffnheader
%
% Define \deffn and \deffnx, without parameters.
% \deffnheader has to be defined explicitly.
%
\def\domakedefun#1#2#3{\envdef#1{\startdefun\doingtypefnfalse % distinguish typed functions from all else\parseargusing\activeparens{\printdefunline#3}\\\deffn#2\dodefunx#1\deffnx#3}}%

% \newif\ifdoingtypefn % doing typed function?
% \newif\ifrettypeownline % typeset return type on its own line?

% @deftypefnnewline on|off says whether the return type of typed functions
% are printed on their own line. This affects @deftypefn, @deftypefun,
% @deftypeop, and @deftypemethod.
%
\parseargdef\deftypefnnewline{\def\temp\doifx\temp\onword
\expandafter\let\csname SETtxideftypefnnl\endcsname = \empty
\else\doifx\temp\offword
\expandafter\let\csname SETtxideftypefnnl\endcsname = \relax
\else\errhelp = \Em{\simple}
\errmessage{Unknown @txideftypefnnl value `\temp', must be on|off}}%
\fi\fi
% Untyped functions:

% @deffn category name args
\makedefun{deffn}{\deffngeneral{}}

% @deffn category class name args
\makedefun{defop}{#1 \{defopon{#1\ putwordon}}

% \defopon {category on}class name args
\def\defopon#1#2 \{deffngeneral{putwordon\code{#2}}{#1\code{#2}} \}

% \deffngeneral {subind}category name args
% \def\deffngeneral#1#2 #3 #4\endheader{ %
% Remember that \dosubind{fn}{foo}{} is equivalent to \doind{fn}{foo}.
% \dosubind{fn}{\code{#3}}\{#1\}%
% \defname{#2}{}{#3}\magicamp\defunargs{#4\unskip}%
% }

% Typed functions:

% @deftypefn category type name args
\makedefun{deftypefn}{\deftypefngeneral{}}

% @deftypeop category class type name args
\makedefun{deftypeop}{#1 \{deftypeopon{#1\ putwordon}}

% \deftypeopon {category on}class type name args
\def\deftypeopon#1#2 \{deftypefngeneral{putwordon\code{#2}}{#1\code{#2}} \}

% \deftypefngeneral {subind}category type name args
% \def\deftypefngeneral#1#2 #3 #4#5\endheader{ %
% \dosubind{fn}{\code{#4}}\{#1\}%
% \doingtypefntrue
% \defname{#2}{#3}{#4}\defunargs{#5\unskip}%
% }

% Typed variables:

% @deftypevr category type var args
\makedefun{deftypevr}{\deftypecvgeneral{}}

% @deftypecv category class type var args
\makedefun{deftypecv}{#1 \{deftypecvof{#1\ putwordof}}

% @deftypecvf category class type var args
\makedefun{deftypecvf}{#1 \{deftypecvf{#1\ putwordof}}
% \deftypecvof {category of}class type var args
\def\deftypecvof#1#2 {\deftypecvgeneral{\putwordof\code{#2}}{#1\code{#2}}}

% \deftypecvgeneral {subind}category type var args
%\def\deftypecvgeneral#1#2 #3 #4 #5\endheader{%
\dosubind{vr}{\code{#4}}{#1}\
\defname{#2}{#3}{#4}\defunargs{#5\unskip}\
}

% Untyped variables:

% @defvr category var args
\makedefun{defvr}#1 {\deftypevrheader{#1} {}}

% @defcv category class var args
\makedefun{defcv}#1 {\defcvof{#1\putwordof}}

% \defcvof {category of}class var args
\deftypecvof\#1\#2 { }{ }

% Types:

% @deftp category name args
\makedefun{deftp}#1 #2 #3\endheader{%
\doind{tp}{\code{#2}}\
\defname{#1}{}{#2}\defunargs{#3\unskip}\
}

% Remaining @defun-like shortcuts:
\makedefun{defun}{\deffnheader\putwordDeffunc}
\makedefun{defmac}{\deffnheader\putwordDefmac}
\makedefun{dfspsp}{\deffnheader\putwordDefspec}
\makedefun{deftypefun}{\deftypefnheader\putwordDeffunc}
\makedefun{defvar}{\defvrheader\putwordDefvar}
\makedefun{deftypevar}{\deftypevrheader\putwordDefvar}
\makedefun{defmethod}{\defopon\putwordMethodon}
\makedefun{deftypemethod}{\deftypeopon\putwordMethodon}
\makedefun{deftypeivar}{\deftypecvof\putwordInstanceVariableof}
\makedefun{deftypeivar}{\deftypecvof\putwordInstanceVariableof}

% \defname, which formats the name of the @def (not the args).
% #1 is the category, such as "Function".
% #2 is the return type, if any.
% #3 is the function name.
% We are followed by (but not passed) the arguments, if any.
\def\defname#1#2#3{\par
% Get the values of \leftskip and \rightskip as they were outside the @def...
\advance\leftskip by -\defbodyindent
%
% Determine if we are typesetting the return type of a typed function
% on a line by itself.
\rettypeownlinefalse

\ifdoingtypefn % doing a typed function specifically?
% then check user option for putting return type on its own line:
\expandafter\ifx\csname SETtxideftypefnnl\endcsname\relax \else
\rettypeownlinetrue
\fi

% How we'll format the category name. Putting it in brackets helps
% distinguish it from the body text that may end up on the next line
% just below it.
\def\temp{#1}\
\setbox0=\hbox{\kern\deflastargmargin \ifx\temp\empty\else [\rm\temp]\fi}

% Figure out line sizes for the paragraph shape. We'll always have at
% least two.
\tempnum = 2
%
% The first line needs space for \box0; but if \rightskip is nonzero,
% we need only space for the part of \box0 which exceeds it:
\dimen0=\hsize \advance\dimen0 by -\wd0 \advance\dimen0 by \rightskip
%
% If doing a return type on its own line, we'll have another line.
\ifrettypeownline
\advance\tempnum by 1
\def\maybeshapeline{0in \hsize}\\
\else
\def\maybeshapeline{ }\\
\fi

% The continuations:
\dimen2=\hsize \advance\dimen2 by -\defargsindent
%
% The final paragraph shape:
\parshape \tempnum 0in \dimen0 \maybeshapeline \defargsindent \dimen2
%
% Put the category name at the right margin.
\noindent
\hbox to 0pt{ %
\hfil\box0 \kern-\hsize
\hspace has to be shortened this way:
\kern\leftskip
% Intentionally do not respect \rightskip, since we need the space.
}\%
%
% Allow all lines to be underfull without complaint:
\tolerance=10000 \hbadness=10000
\exdentamount=\defbodyindent
{
% defun fonts. We use typewriter by default (used to be bold) because:
% . we're printing identifiers, they should be in tt in principle.
% . in languages with many accents, such as Czech or French, it's
%   common to leave accents off identifiers. The result looks ok in
% tt, but exceedingly strange in rm.
% . we don't want -- and --- to be treated as ligatures.
% . this still does not fix the ?` and !` ligatures, but so far no
%   one has made identifiers using them :).  
\df \tt
\def\temp[#2]{% text of the return type
\fx\empty\else
\tclose{\temp}% typeset the return type
\ifretttypeownline
% put return type on its own line; prohibit line break following:
\hsfill\vadjust{\nobreak}\break
\else
\space% type on same line, so just followed by a space
\fi
\fi% no return type
#3% output function name
}%
{\rm\enskip}% hskip 0.5 em of \tenrm
% On the other hand, if an argument has two dashes (for instance), we
% want a way to get ttsl. We used to recommend \var for that, so
\def\defunargs#1{%
% use sl by default (not ttsl),
% tt for the names.
\df \sl \hyphenchar\font=0
%
% Print arguments in slanted roman (not ttsl), inconsistently with using
% tt for the name. This is because literal text is sometimes needed in
% the argument list (groff manual), and ttsl and tt are not very
% distinguishable. Prevent hyphenation at `\-' chars.
% \def\defunargs#1{%

% leave the code in, but it's strange for @var to lead to typewriter.
% Nowadays we recommend @code, since the difference between a ttsl hyphen
% and a tt hyphen is pretty tiny. @code also disables ?`!`.
\def\var##1{{\setupmarkupstyle{var}\ttslanted{##1}}}%
#1%
\sl\hyphenchar\font=45
}

% We want ()&[] to print specially on the defun line.
% \def\activeparens{%
  \catcode`\(=\active
  \catcode`\)=\active
  \catcode`\&=\active
  \catcode`\[=\active
  \catcode`\]=\active
%
% Make control sequences which act like normal parenthesis chars.
\let\lparen= ( \let\rparen= )
\newif\ifampseen
\def\amprm#1 {\ampseentrue{\bf\&#1}}
\def\parenfont{%
  \ifampseen
    % At the first level, print parens in roman,
    % otherwise use the default font.
    \ifnum\parencount=1 \rm \fi
  \else
    % The \sf parens (in \boldbrax) actually are a little bolder than
    % the contained text. This is especially needed for [ and ] .
    \sf
  \fi
}
% @macro.

% To do this right we need a feature of e-TeX, \scantokens,
% which we arrange to emulate with a temporary file in ordinary TeX.
\ifx\eTeXversion\thisisundefined
\newwrite\macscribble
\def\scantokens#1{\
  \toks0={#1}\
  \immediate\openout\macscribble=\jobname.tmp\
  \immediate\write\macscribble{\the\toks0}\
  \immediate\closeout\macscribble\
  \input \jobname.tmp}
\fi

\def\scanmacro#1{\begingroup
\newlinechar`\^^M
\let\xeatspaces=eatspaces
% Undo catcode changes of \startcontents and \doprintindex
% When called from @insertcopying or (short)caption, we need active
% backslash to get it printed correctly. Previously, we had
% \catcode`\=/=other instead. We'll see whether a problem appears
% with macro expansion.--kasal, 19aug04
\catcode`\@=0 \catcode`\=\active \escapechar=`\@
% ...
% The \empty here causes a following catcode 5 newline to be eaten as
% part of reading whitespace after a control sequence. It does not
% eat a catcode 13 newline. There's no good way to handle the two
% cases (untried: maybe e-TeX's \everyeof could help, though plain TeX
% would then have different behavior). See the Macro Details node in
% the manual for the workaround we recommend for macros and
% line-oriented commands.
% \scantokens{\#1\empty}%
\endgroup}

\def\scaneexp#1{\edef\temp{\noexpand\scanmacro{#1}}\temp}

\newcount\paramno   % Count of parameters
\newtoks\macname    % Macro name
\newif\ifrecursive  % Is it recursive?
% List of all defined macros in the form
% \definedummyword\macrolist\definedummyword\macrolist
% Currently is also contains all @aliases; the list can be split
% if there is a need.
\def\macrolist{}% Add the macro to \macrolist
\def\addtomacrolist#1{\expandafter \addtomacrolistxxx \csname#1\endcsname}
\def\addtomacrolistxxx#1{\toks0 = \expandafter{\macrolist\definedummyword#1}
\xdef\macrolist{\the\toks0}}% Utility routines.
% This does \let #1 = #2, with \csnames; that is,
% \let \csname#1\endcsname = \csname#2\endcsname
% (except of course we have to play expansion games).
\def\cslet#1#2{\expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}% Trim leading and trailing spaces off a string.
% Concepts from aro-bend problem 15 (see CTAN).
\catcode`\@=11\gdef\eatspaces #1{\expandafter\trim@\expandafter{#1}}\gdef\trim@ #1{\trim@@ @#1 @ #1 @ @@}\gdef\trim@@ #1@ #2@ #3@@{\trim@@@\empty #2 @}\def\unbrace#1{#1}\unbrace{\gdef\trim@@@ #1 } #2@{#1}% Trim a single trailing ^^M off a string.
{\catcode`\^^M=other \catcode`\Q=3%\gdef\eatcr #1{\eatcra #1\Q\Q}\gdef\eatcra#1\Q\Q{#1}\gdef\eatcrb#1\Q\Q{\eatcrb@1Q}{#1}}% Macro bodies are absorbed as an argument in a context where
% all characters are catcode 10, 11 or 12, except \ which is active
% (as in normal texinfo). It is necessary to change the definition of \% to recognize macro arguments; this is the job of \mbodybackslash.
% Non-ASCII encodings make 8-bit characters active, so un-activate
them to avoid their expansion. Must do this non-globally, to
confine the change to the current group.

It’s necessary to have hard CRs when the macro is executed. This is
done by making ^^M (endlinechar) catcode 12 when reading the macro
body, and then making it the \newlinechar in \scanmacro.

\def\scanctxt{% used as subroutine
 \catcode`\"=other
 \catcode`\+=other
 \catcode`\=<other
 \catcode`\>=other
 \catcode`\@=other
 \catcode`\^=other
 \catcode`\_=other
 \catcode`\|=other
 \catcode`\-=other
 \ifx\declaredencoding\ascii \else \setnonasciicharscatcodenonglobal\other \fi
}

\def\scanargctxt{% used for copying and captions, not macros.
 \scanctxt
 \catcode`\}=other
 \catcode`\^^M=other
}

\def\macrobodyctxt{% used for @macro definitions
 \scanctxt
 \catcode`\{|=other
 \catcode`\}>=other
 \catcode`\^^M=other
 \usembodybackslash
}

\def\macroargctxt{% used when scanning invocations
 \scanctxt
 \catcode`\\=0
}

% why catcode 0 for \ in the above? To recognize \ \{ \} as "escapes"
% for the single characters \ { }. Thus, we end up with the "commands"
% that would be written @\@ \{ \} in a Texinfo document.
%
% We already have @\{ and @\}. For @\\, we define it here, and only for
% this purpose, to produce a typewriter backslash (so, the @\ that we
% define for @math can’t be used with @macro calls):
%
%\def\\normalbackslash{\%
% We would like to do this for \, too, since that is what makeinfo does.
% But it is not possible, because Texinfo already has a command @, for a
% cedilla accent. Documents must use @comma{} instead.
%
% anythingelse will almost certainly be an error of some kind.

% \mbodybackslash is the definition of \ in @macro bodies.
% It maps \foo\ => \csname macarg.\foo\endcsname => #N
% where N is the macro parameter number.
% We define \csname macarg.\endcsname to be \realbackslash, so
% \\ in macro replacement text gets you a backslash.
%
% \catcode`@=0 \catcode`@\=@active
@gdef@usembodybackslash{@let\=@mbodybackslash}
@gdef@mbodybackslash#1\{@csname macarg.#1@endcsname}\}
\expandafter\def\csname macarg.\endcsname{\realbackslash}
\def\margbackslash#1{\char`#1 }
\def\macro{\recursivefalse\parsearg\macroxxx}
\def\rmacro{\recursivetru\parsearg\macroxxx}
\def\macroxxx#1{\getargs{#1}% now \macname is the macname and \argl the arglist
  \if\arglempty % no arguments
    \paramno=0\relax
  \else
    \expandafter\parsemargdef \argl;\%
    \if\paramno>256\relax
      \if\eTeXversion\thisisundefined
        \errhelp = \EMsimple
        \errmessage{You need eTeX to compile a file with macros with more than 256 arguments}
      \fi
      \fi
    \fi
  \fi
  \if\csname ismacro.\the\macname\endcsname
    \message{Warning: redefining \the\macname}\%
  \else
    \expandafter\if\csname \the\macname\endcsname \relax
    \else \errmessage{Macro name \the\macname space already defined}\fi
    \global\cslet{mcsave.\the\macname}{\the\macname}\%
    \global\expandafter\let\csname ismacro.\the\macname\endcsname=1%
    \addtomacrolist{\the\macname}\%
  \fi
  \begingroup \macrobodyctxt
    \ifrecursive \expandafter\parsemacbody
\else \expandafter\parsemacbody
\fi}

\parseargdef\unmacro{%
\if\csname ismacro.#1\endcsname
\global\cslet{#1}{macsave.#1}\
\global\expandafter\let \csname ismacro.#1\endcsname=0%
% Remove the macro name from \macrolist:
\begingroup
\expandafter\let\csname#1\endcsname \relax
\let\definedummyword\unmacrodo
\xdef\macrolist{\macrolist}\
\endgroup
\else
\errmessage{Macro #1 not defined}%
\fi
}

% Called by \do from \dounmacro on each macro. The idea is to omit any % macro definitions that have been changed to \relax.
%
\def\unmacrodo#1{%
\ifx #1\relax
% remove this
\else
\noexpand\definedummyword \noexpand#1%
\fi
}

% This makes use of the obscure feature that if the last token of a % <parameter list> is #, then the preceding argument is delimited by % an opening brace, and that opening brace is not consumed.
\def\getargs#1{\getargsxxx#1{}}
\def\getargsxxx#1#{\getmacname #1 \relax\getmacargs}
\def\getmacname#1 #2\relax{\macname={#1}}
\def\getmacargs#1{\def\argl{#1}}

% For macro processing make @ a letter so that we can make Texinfo private macro names.
\edef\texiatcatcode{\the\catcode`@}
\catcode`@=11\relax

% Parse the optional \{params\} list. Set up \paramno and \paramlist % so \defmacro knows what to do. Define \macarg.BLAH for each BLAH % in the params list to some hook where the argument si to be expanded. If % there are less than 10 arguments that hook is to be replaced by ##N where N % is the position in that list, that is to say the macro arguments are to be % defined \textipa TeX in the macro body.
That gets used by `\body\backslash` (above).

We need to get `\macro parameter char` into several definitions.
The technique used is stolen from LaTeX: let `\hash` be something
unexpandable, insert that wherever you need a #, and then redefine
it to # just before using the token list produced.

The same technique is used to protect `\eatspaces` till just before
the macro is used.

If there are 10 or more arguments, a different technique is used, where the
hook remains in the body, and when macro is to be expanded the body is
processed again to replace the arguments.

In that case, the hook is `\the\toks` N-1, and we simply set `\toks` N-1 to the
argument N value and then `\def` the body (nothing else will expand because of
the catcode regime underwhich the body was input).

If you compile with TeX (not eTeX), and you have macros with 10 or more
arguments, you need that no macro has more than 256 arguments, otherwise an
error is produced.

\def\parsemargdef#1;{% 10 or more arguments
  \paramno=0\def\paramlist{}%
  \let\hash\relax
  \let\eatspaces\relax
  \parsemargdefxxx#1,;,%
  \ifnum\paramno<10\relax\else
    \paramno0\relax
    \parsemanyargdef@@#1,;,% 10 or more arguments
  \fi
}
\def\parsemargdefxxx#1,;{%
  \if#1;\let\next=\relax
  \else \let\next=\parsemargdefxxx
      \advance\paramno by 1
      \expandafter\edef\csname macarg.\eatspaces\endcsname
      {\eatspaces{\hash\the\paramno}}%
      \edef\paramlist{\paramlist\hash\the\paramno,}%
  \fi\next}
\def\parsemanyargdef@@#1,;{% 10 or more arguments
  \if#1;\let\next=\relax
  \else \let\next=\parsemargdefxxx
      \advance\paramno by 1
      \expandafter\edef\csname macarg.\eatspaces\endcsname
      {\eatspaces{\hash\the\paramno}}%
      \edef\paramlist{\paramlist\hash\the\paramno,}%
  \fi\next}
\getargvals@@
\fi
}

% \def\getargvals@@ {%
\ifx\paramlist\nilm@
% Some sanity check needed here that \argvaluelist is also empty.
\ifx\argvaluelist\nilm@
\else
\errhelp = \EMsimple
\errmessage{Too many arguments in macro \macroname}!
\fi
\let\next\macargexpandinbody@
\else
\ifx\argvaluelist\nilm@
% No more arguments values passed to macro. Set remaining named-arg macros to empty.
\let\next\setemptyargvalues@
\else
% pop current arg name into \@tempb
\def\@tempa##1{\pop@{\@tempb}{\paramlist}##1\endargs@}
\expandafter\@tempa\expandafter{\paramlist}
% pop current argument value into \@tempc
\def\@tempa##1{\longpop@{\@tempc}{\argvaluelist}##1\endargs@}
\expandafter\@tempa\expandafter{\argvaluelist}
% Here \@tempb is the current arg name and \@tempc is the current arg value.
% First place the new argument macro definition into \@tempd
\expandafter\macname\expandafter{\@tempc}
\expandafter\let\csname macarg.\@tempb\endcsname\relax
\expandafter\def\expandafter\@tempe\expandafter{\csname macarg.\@tempb\endcsname}
\edef\@tempd{\long\def\@tempe{\the\macname}}
\push@{\@tempd}{\macargdeflist@}
\let\next\getargvals@@
\fi
\fi
\next
}

\def\push@#1#2{%
\expandafter\expandafter\expandafter\def
\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
\expandafter\expandafter\expandafter\expandafter\def
%}
% Replace arguments by their values in the macro body, and place the result
% in macro \@tempa 
def\macvalstoargs@ { %
% To do this we use the property that token registers that are \the'ed % within an \edef expand only once. So we are going to place all argument % values into respective token registers.
%
% First we save the token context, and initialize argument numbering.
\begingroup
\paramno0\relax
% Then, for each argument number #N, we place the corresponding argument % value into a new token list register \toks#N 
\expandafter\putargsintokens@\saveparamlist@;,;,%
% Then, we expand the body so that argument are replaced by their % values. The trick for values not to be expanded themselves is that they % are within tokens and that tokens expand only once in an \edef .
\edef\@tempc{\csname mac.\macroname.body\endcsname}%
% Now we restore the token stack pointer to free the token list registers % which we have used, but we make sure that expanded body is saved after % group.
\expandafter
\endgroup
\expandafter\def\expandafter\@tempa\expandafter{\@tempc}{}
}
def\macargexpandinbody@ { %
%% Define the named-macro outside of this group and then close this group.
\expandafter
\endgroup
\macargdeflist@
% First the replace in body the macro arguments by their values, the result % is in \@tempa .
\macvalstoargs@
% Then we point at the \norecurse or \gobble (for recursive) macro value % with \@tempb .
\expandafter\let\expandafter\@tempb\csname mac.\macroname.recurse\endcsname
% Depending on whether it is recursive or not, we need some tailing % \egroup .
\ifx\@tempb\gobble
 \let\let\tempb\relax
\else
 \let\let\tempb\egroup
\fi
% And now we do the real job:
\edef\@tempd{\noexpand\@tempb{\macroname}\noexpand\scanmacro{\@tempa}\@tempc}%
 \@tempd
}
def\putargsintokens@#1,{%
% First we allocate the new token list register, and give it a temporary
% alias \@tempb.
\toksdef\@tempb\the\paramno
% Then we place the argument value into that token list register.
\expandafter\let\expandafter\@tempa\csname macarg.#1\endcsname
\expandafter\@tempb\expandafter{\@tempa}\
\advance\paramno by 1\relax
\fi
\next
}

% Save the token stack pointer into macro #1
\def\texisavetoksstackpoint#1{\edef#1{\the\@cclvi}}
% Restore the token stack pointer from number in macro #1
\def\texirestoretoksstackpoint#1{\expandafter\mathchardef\expandafter\@cclvi#1\relax}
% newtoks that can be used non \outer.
\def\texinonouternewtoks{\alloc@ 5\toks \toksdef \@cclvi}

% Tailing missing arguments are set to empty
\def\setemptyargvalues@ {%
  \if\paramlist\nilm@
    \let\next\macarg\expandinbody@
  \else
    \expandafter\setemptyargvaluesparser@\paramlist\endargs@
    \let\next\setemptyargvalues@
  \fi
  \next
}

\def\setemptyargvaluesparser@#1,#2\endargs@ {%
  \expandafter\def\expandafter\@tempa\expandafter{\vs}
  \push@\@tempa\macarg\deflist@
  \def\paramlist{#2}%
}

% #1 is the element target macro
% #2 is the list macro
% #3,#4#endargs@ is the list value
\def\pop@#1#2#3,#4\endargs@ {%
  \def#1{#3}
  \def#2{#4}
}\long\def\longpop@#1#2#3,#4\endargs@ {%
  \long\def#1{#3}%
\long\def\@#2{#4}%
\}

% This defines a Texinfo @macro. There are eight cases: recursive and
% nonrecursive macros of zero, one, up to nine, and many arguments.
% Much magic with \expandafter here.
% \xdef is used so that macro definitions will survive the file
% they're defined in; @include reads the file inside a group.
%
\def\mac{def\macro{%
\let\hash=##% convert placeholders to macro parameter chars
\ifrecursive
% 0
\expandafter\xdef\csname\the\macname\endcsname{%
  \noexpand\scanmacro{\temp}}%
\or % 1
\expandafter\xdef\csname\the\macname\endcsname{%
  \bgroup\noexpand\macroargctxt
  \noexpand\braceorline
  \expandafter\noexpand\csname\the\macname xxx\endcsname}%
  \expandafter\xdef\csname\the\macname xxx\endcsname##1{%
    \egroup\noexpand\scanmacro{\temp}}%
\else
% 10 or more
\expandafter\xdef\csname\the\macname\endcsname{%
  \noexpand\getargvals@{\the\macname}{\argl}%
}%
\global\expandafter\let\csname mac.\the\macname .body\endcsname\temp
\global\expandafter\let\csname mac.\the\macname .recurse\endcsname\gobble
\fi
\fi
\ifcase\paramno
% 0
\expandafter\xdef\csname\the\macname\endcsname{%
  \noexpand\norecurse{\the\macname}%
}%
\else
% at most 9
\expandafter\xdef\csname\the\macname\endcsname{%
  \bgroup\noexpand\macroargctxt
  \noexpand\csname\the\macname xx\endcsname}%
  \expandafter\xdef\csname\the\macname xx\endcsname##1{%
    \expandafter\expandafter
    \expandafter\xdef
    \expandafter\expandafter
    \csname\the\macname xxx\endcsname
    \paramlist{\egroup\noexpand\scanmacro{\temp}}%
\else
% 10 or more
\expandafter\xdef\csname\the\macname\endcsname{%
  \noexpand\getargvals@{\the\macname}{\argl}%
}%
\global\expandafter\let\csname mac.\the\macname .body\endcsname\temp
\global\expandafter\let\csname mac.\the\macname .recurse\endcsname\gobble
\fi
\fi
\ifcase\paramno
% 0
\expandafter\xdef\csname\the\macname\endcsname{%
  \noexpand\norecurse{\the\macname}%
}%
\fi \macnamexxx

\% @alias.
\% We need some trickery to remove the optional spaces around the equal
\% sign. Make them active and then expand them all to nothing.
\% 
def\alias{\parseargusing\obeyspaces\aliasxxx}
def\aliasxxx #1{\aliasyyy#1\relax}
def\aliasyyy #1=#2\relax{%
  \expandafter\let\obeyedspace=\empty
  \addtomacrolist{#1}%
  \xdef\next{\global\let\makecsname{#1}=\makecsname{#2}}%
}%
\next
}

\message{cross references,}

\newwrite\auxfile
\newif\ifhavexrefs    % True if xref values are known.
\newif\ifwarnedxrefs  % True if we warned once that they aren't known.

\% @inforef is relatively simple.
def\inforef #1{\inforefzzz #1,,,,**}
def\inforefzzz #1,#2,#3,**{
  \putwordSee{} \putwordInfo{} \putwordfile{} \file{\ignorespaces #3{}}
  node \samp{\ignorespaces#1{}}}

\% @node's only job in TeX is to define \lastnode, which is used in
\% cross-references. The @node line might or might not have commas, and
\% might or might not have spaces before the first comma, like:
\% @node foo , bar , ...
\% We don't want such trailing spaces in the node name.
\%
def\node{\checkenv{}\donode #1 ,\finishnodeparse}
\%
\% also remove a trailing comma, in case of something like this:
def\dodonode#1,#2\finishnodeparse{
  \gdef\lastnode{#1}}
def\dodonode#1,#2\finishnodeparse{\gdef\lastnode{#1}}

\let\unnode=\node
\let\lastnode=\empty

\% Write a cross-reference definition for the current node. #1 is the
\def\donoderef#1{\ifx\lastnode\empty\else\setref{\lastnode}{#1}\global\let\lastnode=\empty\fi}

% @anchor{NAME} -- define xref target at arbitrary point.
\newcount\savesfregister
\def\savesf{\relax\ifhmode\savesfregister=\spacefactor\fi}
\def\restoresf{\relax\ifhmode\spacefactor=\savesfregister\fi}
\def\anchor#1{\savesf\setref{#1}{Ynothing}\restoresf\ignorespaces}

% \setref{NAME}{SNT} defines a cross-reference point NAME (a node or an anchor), which consists of three parts:
% 1) NAME-title - the current sectioning name taken from \lastsection, or the anchor name.
% 2) NAME-snt - section number and type, passed as the SNT arg, or empty for anchors.
% 3) NAME-pg - the page number.
%
% This is called from \donoderef, \anchor, and \dofloat. In the case of floats, there is an additional part, which is not written here:
% 4) NAME-lof - the text as it should appear in a @listoffloats.
%
\def\setref#1#2{\pdfmkdest{#1}{#1 of \setref, expanded by the \edef}
\iflinks{\atdummies % preserve commands, but don't expand them
  \edef\writexrdef##1##2{\write\auxfile{@xrdef{#1-% #1 of \setref, expanded by the \edef
    ##1}{##2}}% these are parameters of writexrdef
  \toks0 = \expandafter{\lastsection}\immediate \writexrdef{title}{\the\toks0} % \immediate \writexrdef{snt}{\csname #2\endcsname} % \Ynumbered etc.
  \safewhatsit{\writexrdef{pg}{\folio}}% will be written later, at \shipout
}\fi}

% @xrefautosectiontitle on|off says whether @section(ing) names are used automatically in xrefs, if the third arg is not explicitly specified.
% This was provided as a "secret" @set xref-automatic-section-title
% variable, now it's official.
%
\parseargdef{xrefautomaticsectiontitle}{%
  \def\temp{#1}%
  \ifx\temp\onword
    \expandafter\let\csname SETxref-automatic-section-title\endcsname = \empty
  \else
    \expandafter\let\csname SETxref-automatic-section-title\endcsname = \relax
  \fi
  \errhelp = \EMsimple
  \errmessage{Unknown @xrefautomaticsectiontitle value `\temp',
    must be on|off}%
\fi
}
%
% @xref, @pxref, and @ref generate cross-references. For \xrefX, #1 is
% the node name, #2 the name of the Info cross-reference, #3 the printed
% node name, #4 the name of the Info file, #5 the name of the printed
% manual. All but the node name can be omitted.
%
\def\pxref#1{\putwordsee{} \xrefX[#1,,,,,,,]}
\def\xref#1{\putwordSee{} \xrefX[#1,,,,,,,]}
\def\ref#1{\xrefX[#1,,,,,,,]}
%
\newbox\toprefbox
\newbox\printedrefnamebox
\newbox\infofilenamebox
\newbox\printedmanualbox
%
\def\xrefX[#1,#2,#3,#4,#5,#6]{\begingroup
  \unsepspaces
  % Get args without leading/trailing spaces.
  \def\printedrefname{\ignorespaces #3}\%
  \setbox\printedrefnamebox = \hbox{\printedrefname\unskip}\%
  \def\infofilename{\ignorespaces #4}\%
  \setbox\infofilenamebox = \hbox{\infofilename\unskip}\%
  \def\printedmanual{\ignorespaces #5}\%
  \setbox\printedmanualbox = \hbox{\printedmanual\unskip}\%
  % If the printed reference name (arg #3) was not explicitly given in
  % the @xref, figure out what we want to use.
% No printed node name was explicitly given.
% Not auto section-title: use node name inside the square brackets.
\def\printedrefname{\ignorespaces #1}\
\else
% Auto section-title: use chapter/section title inside
% the square brackets if we have it.
% It is in another manual, so we don't have it; use node name.
\def\printedrefname{\ignorespaces #1}\
\else
% We (should) know the real title if we have the xref values.
\def\printedrefname{\refx{#1-title}{}}\
\else
% Otherwise just copy the Info node name.
\def\printedrefname{\ignorespaces #1}\
\fi
\fi
\fi
\fi
\fi
% Make link in pdf output.
\ifpdf
{\indexnofonts
 \turnoffactive
 \makevalueexpandable
 \getfilename{#4}\
 \pdfxrefdest{#1} no empty targets
\else
 \txiescapepdf\pdfxrefdest % escape PDF special chars
\fi
% This (wrongly) does not take account of leading or trailing
% spaces in #1, which should be ignored.
\edef\pdfxrefdest{\ignorespaces #1}\
\fi
\leavevmode
\startlink attr{/Border [0 0 0]}\
\ifnum\filenamelength>0
\ifnum\filenamelength>0
 goto file{\the\filename.pdf} name{\pdfxrefdest}\
\else
 goto name{\pdfmkpgn{\pdfxrefdest}}\
\fi
\fi
\fi
\setcolor{\linkcolor}\fi
\% Float references are printed completely differently: "Figure 1.2"
\% instead of "[somenode], p.3". We distinguish them by the
\% LABEL-title being set to a magic string.
\%
\% Have to otherify everything special to allow the \csname to
\% include an _ in the xref name, etc.
\indexnofonts
\turnoffactive
\expandafter\global\expandafter\let\expandafter\Xthisreftitle
\csname XR#1-title\endcsname
\% Float \Xthisreftitle
\%
\iffloat\Xthisreftitle
\% If the user specified the print name (third arg) to the ref,
\% print it instead of our usual "Figure 1.2".
\ifdim\wd\printedrefnamebox = 0pt
\refx{#1-snt}{}\%
\else
\refx{#1-snt}{}\%
\fi
\% If the user also gave the printed manual name (fifth arg), append
\% "in MANUALNAME".
\ifdim \wd\printedmanualbox > 0pt
\space \putword\{} \cite{\printedmanual}\%
\fi
\else
\%
\node/anchor (non-float) references.
\%
\ifdim \wd\printedmanualbox > 0pt
\%
\crossmanualxref{\cite{\printedmanual}\unskip} \%
\% Cross Manual Reference with a printed manual name.
\%
\else\ifdim \wd\infofilenamebox > 0pt
\%
\crossmanualxref{\cite{\unskip} \%
\% Cross Manual Reference with only an info filename (arg 4), no
\% printed manual name (arg 5). This is essentially the same as

Open Source Used In vEdge 20.1 20.1
\setbox2 = \hbox{\ignorespaces \printedrefname \unskip \kern7sp} %
\ifdim \wd2 > 7sp % nonempty?
  \ifdim \wd2 = \wd\toprefbox % same as Top?
    \putwordSection{} \`\printedrefname" \putwordin{} \space
  \fi
\fi
#1%
}

% This macro is called from \xrefX for the `[nodename]` part of xref
% output. It's a separate macro only so it can be changed more easily,
% since square brackets don't work well in some documents. Particularly
% one that Bob is working on :).
%
\def\xrefprintnodename#1{[#1]}

% Things referred to by \setref.
%
\def\Ynothing{}
\def\Yomitfromtoc{}
\def\Ynumbered{%
  \ifnum\secno=0
    \putwordChapter@tie \the\chapno
  \else \ifnum\subsecno=0
    \putwordSection@tie \the\chapno.\the\secno
  \else \ifnum\subsubsecno=0
    \putwordSection@tie \the\chapno.\the\secno.\the\subsecno
  \else
    \putwordSection@tie \the\chapno.\the\secno.\the\subsecno.\the\subsubsecno
  \fi\fi\fi
  \fi\fi\fi
}
\def\Yappendix{%
  \ifnum\secno=0
    \putwordAppendix@tie @char\the\appendixno{}%
  \else \ifnum\subsecno=0
    \putwordSection@tie @char\the\appendixno.\the\secno
  \else \ifnum\subsubsecno=0
    \putwordSection@tie @char\the\appendixno.\the\secno.\the\subsecno
  \else
    \putwordSection@tie
      @char\the\appendixno.\the\secno.\the\subsecno.\the\subsubsecno
  \fi\fi\fi
  \fi\fi\fi
}

% Define \refx{NAME}{SUFFIX} to reference a cross-reference string named NAME.
% If its value is nonempty, SUFFIX is output afterward.
%
\def\refx#1#2{
\indexnofonts
\otherbackslash\expandafter\global\expandafter\let\expandafter\thisrefX\csname XR#1\endcsname
\%\n\ifx\thisrefX\relax% If not defined, say something at least.% angleleft undefinedangleright\iflinks\ifhavexrefs{\toks0 = {#1}% avoid expansion of possibly-complex value\message{\linenumber Undefined cross reference `the\toks0'.}}%\else\ifwarnedxrefs\else\global\warnedxrefstrue\message{Cross reference values unknown; you must run \TeX\ again.}\fi\fi\else% It's defined, so just use it.\thisrefX\fi\f钡#2% Output the suffix in any case.
\}
\% This is the macro invoked by entries in the aux file. Usually it's% just a \def\ (we prepend XR to the control sequence name to avoid% collisions). But if this is a float type, we have more work to do.%\%\def\xrdef#1#2{\%% The node name might contain 8-bit characters, which in our current% implementation are changed to commands like @e. Don't let these% mess up the control sequence name.\indexnofonts\turnoffactive\indexnofonts\%\def\safexrefname[#1]{%\%\expandafter\gdef\csname XR\safexrefname\endcsname[#2]{% remember this xref%\%\expandafter\iffloat\csname XR\safexrefname\endcsname% it was a float, and we have the (safe) float type in \iffloattype.\expandafter\let\expandafter\floatlist\csname floatlist\iffloattype\endcsname\%}
% Is this the first time we've seen this float type?
\expandafter\ifx\floatlist\relax
  \toks0 = \{\do\} % yes, so just \do
\else
  % had it before, so preserve previous elements in list.
  \toks0 = \expandafter{\floatlist\do\}\%
\fi

% Remember this xref in the control sequence \floatlistFLOATTYPE, 
% for later use in \listoffloats.
\expandafter\xdef\csname floatlist\iffloattype\endcsname{\the\toks0
  \{\safexrefname\} }%
\fi
%
% Read the last existing aux file, if any. No error if none exists.
% 
\def\tryauxfile{ %
  \openin 1 \jobname.aux
  \ifeof 1 \else
    \readdatafile\aux\%
    \global\havexrefstrue
  \fi
  \closein 1
}

\def\setupdatafile{ %
  \catcode\^^@=\other
  \catcode\^^A=\other
  \catcode\^^B=\other
  \catcode\^^C=\other
  \catcode\^^D=\other
  \catcode\^^E=\other
  \catcode\^^F=\other
  \catcode\^^G=\other
  \catcode\^^H=\other
  \catcode\^^I=\other
  \catcode\^^J=\other
  \catcode\^^K=\other
  \catcode\^^L=\other
  \catcode\^^M=\other
  \catcode\^^N=\other
  \catcode\^^P=\other
  \catcode\^^Q=\other
  \catcode\^^R=\other
  \catcode\^^S=\other
  \catcode\^^T=\other
  \catcode\^^U=\other
  \catcode\^^V=\other
  \catcode\^^W=\other
  \catcode\^^X=\other
% It was suggested to set the catcode of ^ to 7, which would allow ^^e4 etc.
% in xref tags, i.e., node names. But since ^^e4 notation isn't
% supported in the main text, it doesn't seem desirable. Furthermore,
% that is not enough: for node names that actually contain a ^
% character, we would end up writing a line like this: 'xrdef ['hat
% b-title} ['hat b} and 'xrdef does a \csname...\endcsname on the first
% argument, and \hat is not an expandable control sequence. It could
% all be worked out, but why? Either we support ^^ or we don't.
%
% The other change necessary for this was to define \auxhat:
% \def\auxhat{\def^{'hat }}% extra space so ok if followed by letter
% and then to call \auxhat in \setq.
%
% \catcode`\^=\other
%
% Special characters. Should be turned off anyway, but...
% \catcode`\_=\other
% \catcode`\[=\other
% \catcode`\]=\other
% \catcode`\"=\other
% \catcode`\_=\other
% \catcode`\|=\other
% \catcode`\<=\other
% \catcode`\>=\other
% \catcode`\$=\other
% \catcode`\#=\other
% \catcode`\&=\other
% \catcode`\%=\other % avoid \+ for paranoia even though we've turned it off
%
% This is to support \ in node names and titles, since the \n% characters end up in a \csname. It's easier than
% leaving it active and making its active definition an actual \n% character. What I don't understand is why it works in the *value*
% of the \xrdef. Seems like it should be a \catcode12 \, and that
% should not typeset properly. But it works, so I'm moving on for
% now. --karl, 15jan04.
% \catcode`\\=\other
%
% Make the characters 128-255 be printing characters.
\def\loop{%\catcode\count1=\other\advance\count1 by 1\ifnum\count1<256\loop\fi}%\}% \% @ is our escape character in .aux files, and we need braces.\catcode\{=1\catcode\}=2\catcode\@=0\}
\def\readdatafile#1{%\begingroup\setupdatafile\input\jobname.#1\endgroup}\message{insertions,}\% including footnotes.\newcount\footnoteno\%
\% The trailing space in the following definition for supereject is\% vital for proper filling: pages come out unaligned when you do a\% pagealignmacro call if that space before the closing brace is\% removed. (Generally, numeric constants should always be followed by a\% space to prevent strange expansion errors.)\def\supereject{\par\penalty -20000\footnoteno=0}\%
\% @footnotestyle is meaningful for Info output only.\let\footnotestyle=\comment\%
\% Auto-number footnotes. Otherwise like plain.\gdef\footnote{%\let\indent=\ptexindent\let\noindent=\ptexnoindent\global\advance\footnoteno by 1\global\edef\thisfootno{$^\the\footnoteno}$\%\%
\% In case the footnote comes at the end of a sentence, preserve the\% extra spacing after we do the footnote number.\let\@sf\empty\ifhmode\edef\@sf{\spacefactor\the\spacefactor}\ptexslash\fi}
\%
\% Remove inadvertent blank space before typesetting the footnote number.
\unskip
\thisfootno\@sf
\dofootnote
\%

\%
\% Don’t bother with the trickery in plain.tex to not require the
\% footnote text as a parameter. Our footnotes don’t need to be so general.
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% Invoke rest of plain TeX footnote routine.
\futurelet\next\footnotet
}
}%end \catcode `\@=11

% In case a @footnote appears in a vbox, save the footnote text and create
% the real \insert just after the vbox finished. Otherwise, the insertion
% would be lost.
% Similarly, if a @footnote appears inside an alignment, save the footnote
% text to a box and make the \insert when a row of the table is finished.
% And the same can be done for other insert classes. --kasal, 16nov03.

% Replace the \insert primitive by a cheating macro.
% Deeper inside, just make sure that the saved insertions are not spilled
% out prematurely.
%
\def\startsavinginserts{%
  \ifx \insert\ptexinsert
    \let\insert\saveinsert
  \else
    \let\checkinserts\relax
  \fi
}
%
% This \insert replacement works for both \insert\footins{foo} and
% \insert\footins\bgroup foo\egroup, but it doesn't work for \insert27{foo}.
%
\def\saveinsert#1{%
  \edef\next{\noexpand\savetobox \makeSAVEname#1}\
  \afterassignment\next
  % swallow the left brace
  \let\temp =
}
\def\makeSAVEname#1{\makecsname{SAVE\expandafter\gobble\string#1}}
\def\savetobox#1{\global\setbox#1 = \vbox\bgroup \unvbox#1}
\def\checksaveins#1{\ifvoid#1\else \placesaveins#1\fi}
\def\placesaveins#1{\ptexinsert \csname\expandafter\gobblesave\string#1\endcsname
  {ox#1}\
}
%
% eat @SAVE -- beware, all of them have catcode \other:
{
  \def\dospecials{\do S\do A\do V\do E} \ uncatcodespecials \ % ;)
  \def\gobblesave @SAVE{ }
}
% initialization:
def\newsaveins #1[\%
def\next{\noexpand\newsaveinsX \makeSAVEname#1}\%
\next
]
def\newsaveinsX #1[\%
\csname newbox\endcsname #1\%
\expandafter\def\expandafter\checkinserts\expandafter{\checkinserts
\expandafter\checksaveins #1]\% 
]

% initialize:
def\checkinserts\empty 
def\newsaveins\footins 
def\newsaveins\margin

% @image. We use the macros from epsf.tex to support this.
% If epsf.tex is not installed and @image is used, we complain.
%
% Check for and read epsf.tex up front. If we read it only at @image
% time, we might be inside a group, and then its definitions would get
% undone and the next image would fail.
\openin 1 = epsf.tex 
\ifeof 1 \else
% Do not bother showing banner with epsf.tex v2.7k (available in
% doc/epsf.tex and on ctan).
def\epsfannounce{\toks0 = }%
\input epsf.tex
\fi
\closein 1 
%
% We will only complain once about lack of epsf.tex.
\newif\ifwarnednoepsf
\newhelp\noepsfhelp{epsf.tex must be installed for images to
work. It is also included in the Texinfo distribution, or you can get
it from ftp://tug.org/tex/epsf.tex.}
%
def\image#1[\%
def\epsfbox\thisisundefined
\ifwarnednoepsf\else
\errhelp = \noepsfhelp
\errmessage{epsf.tex not found, images will be ignored}\%
\global\warnednoepsfture
\fi
\else
\imagemxx #1,.,,\finish
\fi
\def\image#1[\%
\ifx\epsfbox\thisisundefined
\ifwarnednoepsf\else
\errhelp = \noepsfhelp
\errmessage{epsf.tex not found, images will be ignored}\%
\global\warnednoepsfture
\fi
\else
\imagemxx #1,.,,\finish
\fi
%
% Arguments to \image:
% #1 is (mandatory) image filename; we tack on .eps extension.
% #2 is (optional) width, #3 is (optional) height.
% #4 is (ignored optional) html alt text.
% #5 is (ignored optional) extension.
% #6 is just the usual extra ignored arg for parsing stuff.
\newif\ifimagevmode
\def\imagexxx#1,#2,#3,#4,#5,#6\finish{\begingroup
\catcode`\^^M = 5     % in case we're inside an example
\normalturnoffactive  % allow _ et al. in names
% If the image is by itself, center it.
\ifvmode
  \imagevmodetrue
\else \ifx\centersub\centerV
  % for @center @image, we need a vbox so we can have our vertical space
  \imagevmodetrue
  \vbox\bgroup % vbox has better behavior than vtop here
  \fi\fi
%
% Leave vertical mode so that indentation from an enclosing
% environment such as @quotation is respected.
% However, if we're at the top level, we don't want the
% normal paragraph indentation.
% On the other hand, if we are in the case of @center @image, we don't
% want to start a paragraph, which will create a hsize-width box and
% eradicate the centering.
\ifx\centersub\centerV\else \noindent \fi
%
% Output the image.
\ifpdf
  \dopdfimage{#1}{#2}{#3}\
\else
  % \epsfbox itself resets \epsfxsize at each figure.
  \setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt \epsfxsize=#2\relax \fi
  \setbox0 = \hbox{\ignorespaces #3}\ifdim\wd0 > 0pt \epsfxsize=#3\relax \fi
  \epsfbox{#1.eps}\
\fi
\fi
\fi
\ifimagevmode
\medskip % space after a standalone image
\fi
\ifx\centersub\centerV \egroup \fi
\endgroup}

% @float FLOATTYPE,LABEL,LOC ... @end float for displayed figures, tables, etc. We don't actually implement floating yet, we always include the float "here". But it seemed the best name for the future.
%
\envparseargdef\float{\eatcommaspace\eatcommaspace\dofloat#1, , ,\finish}

% There may be a space before second and/or third parameter; delete it.
\def\eatcommaspace#1, {#1,}

% #1 is the optional FLOATTYPE, the text label for this float, typically "Figure", "Table", "Example", etc. Can't contain commas. If omitted, this float will not be numbered and cannot be referred to.
%
% #2 is the optional xref label. Also must be present for the float to be referable.
%
% #3 is the optional positioning argument; for now, it is ignored. It will somehow specify the positions allowed to float to (here, top, bottom).
%
% We keep a separate counter for each FLOATTYPE, which we reset at each chapter-level command.
\let\resetallfloatnos=\empty
%
\def\dofloat#1,#2,#3,#4\finish{%
\let\thiscaption=\empty
\let\thisshortcaption=\empty
%
% don't lose footnotes inside @float.
%
% BEWARE: when the floats start float, we have to issue warning whenever an insert appears inside a float which could possibly float. --kasal, 26may04
%
\startsavinginserts
%
% We can't be used inside a paragraph.
\par
%
\vtop\bgroup
\def\floattype{#1}%
\def\floatlabel{#2} %
\def\floatloc{#3} % we do nothing with this yet.
%
\ifx\floattype\empty
\let\safefloattype=\empty
\else
{%
% the floattype might have accents or other special characters,
% but we need to use it in a control sequence name.
\indexnofonts
\turnoffactive
\xdef\safefloattype{\floattype}%
}%
\fi%
%
% If label is given but no type, we handle that as the empty type.
\ifx\floatlabel\empty 
% We want each FLOATTYPE to be numbered separately (Figure 1,
% Table 1, Figure 2, ...). (And if no label, no number.)
%
\expandafter\getfloatno\csname\safefloattype floatno\endcsname
\global\advance\floatno by 1
%
{%
% This magic value for \lastsection is output by \setref as the
% XREFLABEL-title value. \xrefX uses it to distinguish float
% labels (which have a completely different output format) from
% node and anchor labels. And \xref uses it to construct the
% lists of floats.
%
\edef\lastsection{\floatmagic=\safefloattype}%
\setref{\floatlabel} {Yfloat} %
}%
\fi%
%
% start with \parskip glue, I guess.
\vskip\parskip
%
% Don’t suppress indentation if a float happens to start a section.
\restorefirstparagraphindent
%
% we have these possibilities:
% @float Foo,lbl & @caption{Cap}: Foo 1.1: Cap
% @float Foo,lbl & no caption: Foo 1.1
% @float Foo & @caption{Cap}: Foo: Cap
% @float Foo & no caption: Foo
% @float .lbl & Caption{Cap}: 1.1: Cap


\def\Efloat{%
\let\floatident = \empty
%
% In all cases, if we have a float type, it comes first.
\ifx\floattype\empty \else \def\floatident{\floattype}\fi
%
% If we have an xref label, the number comes next.
\ifx\floatlabel\empty \else
  \ifx\floattype\empty \else % if also had float type, need tie first.
    \appendtomacro\floatident{\tie}\%
  \fi
% the number.
  \appendtomacro\floatident{\chaplevelprefix\the\floatno}\%
\fi
%
% Start the printed caption with what we've constructed in
% \floatident, but keep it separate; we need \floatident again.
\let\captionline = \floatident
%
\ifx\thiscaption\empty \else
  \ifx\floatident\empty \else
    \appendtomacro\captionline{: }% had ident, so need a colon between
  \fi
%
% caption text.
  \appendtomacro\captionline{\scanexp\thiscaption}\%
\fi
%
% If we have anything to print, print it, with space before.
% Eventually this needs to become an \insert.
\ifx\captionline\empty \else
  \vskip.5\parskip
\captionline
%
% Space below caption.
  \vskip\parskip
\fi
%
% If have an xref label, write the list of floats info. Do this
% after the caption, to avoid chance of it being a breakpoint.
\ifx\floatlabel\empty \else
  \appendtomacro\floatlabel-lof\%
%
% floatlabel-lof. Besides \floatident, we include the short
% caption if specified, else the full caption if specified, else nothing.
\% since we read the caption text in the macro world, where ^^^M
\% is turned into a normal character, we have to scan it back, so
\% we don't write the literal three characters "^^M" into the aux file.
\scanexp{\%
  \edef\noexpand\gtemp{\%
    \ifx\thisshortcaption\empty \thiscaption \else \thisshortcaption \fi
  }\%
  \immediate\write\auxfile{@xrdef{\floatlabel-lof}{\floatident
    \ifx\gtemp\empty \else \gtemp \fi}]}\%
\}% 
\egroup % end of \vtop
%
% place the captured inserts
%
% BEWARE: when the floats start floating, we have to issue warning
% whenever an insert appears inside a float which could possibly
% float. --kasal, 26may04
%
% \checkinserts

}% Apppend the tokens \#2 to the definition of macro \#1, not expanding either.
%
\def\appendtomacro#1#2{\%
  \expandafter\def\expandafter#1\expandafter{#1#2}\
}% \caption, \shortcaption
%
\def\caption{\docaption\thiscaption}
\def\shortcaption{\docaption\thisshortcaption}
\def\docaption{\checkenv\float \bgroup\scanargctxt\defcaption}
\def\defcaption#1#2{\egroup \def#1{#2}}

% The parameter is the control sequence identifying the counter we are
% going to use. Create it if it doesn't exist and assign it to \floatno.
\def\getfloatno#1{\%
  \ifx#1\relax %
    \relax % Haven't seen this figure type before.
% Remember to reset this floatno at the next chap.
\expandafter\resetallfloatnos
\expandafter\resetallfloatnos #1=0 \%
\fi
\let\floatno#1%
}

% \setref calls this to get the XREFLABEL-snt value. We want an \@xref
% to the FLOATLABEL to expand to "Figure 3.1". We call \setref when we
% first read the \@float command.
% \def\Yfloat{\floattype@tie \chaplevelprefix\the\floatno}%

% Magic string used for the XREFLABEL-title value, so \xrefX can
% distinguish floats from other xref types.
\def\floatmagic{!!float!!}

% #1 is the control sequence we are passed; we expand into a conditional
% which is true if #1 represents a float ref. That is, the magic
% \lastsection value which we \setref above.
% \def\iffloat#1{\expandafter\doiffloat#1==\finish}
% #1 is (maybe) the \floatmagic string. If so, #2 will be the
% (safe) float type for this float. We set \iffloattype to #2.
% \def\doiffloat#1=#2=#3\finish{\def\temp{#1}\%\iffloattype{#2}\%\ifx\temp\floatmagic%}

% \@listoffloats FLOATTYPE - print a list of floats like a table of contents.
% \parseargdef\listoffloats{%
\def\floattype{#1}% floattype
%
% the floattype might have accents or other special characters,
% but we need to use it in a control sequence name.
\indexnofonts
\turnoffactive
\def\safefloattype{\floattype}%
% \xrdef saves the floats as a \do-list in \floatlist\safefloattype.\endcsname \relax
\ifhavexrefs
% if the user said @listoffloats foo but never @float foo.
\message{\linenumber No \texttt{\safefloattype} floats to list.}\%
\fi
\else
\begingroup
\leftskip=\tocindent % indent these entries like a toc
\let\do=\listoffloatsdo
\csname floatlist\safefloattype\endcsname
\endgroup
\fi
%
% This is called on each entry in a list of floats. We're passed the
% xref label, in the form \texttt{LABEL-title}, which is how we save it in the
% aux file. We strip off the -title and look up \texttt{\XRLABEL-lof}, which
% has the text we're supposed to typeset here.
%
% Figures without xref labels will not be included in the list (since
% they won't appear in the aux file).
%
def\listoffloatsdo#1\finish
def\listoffloatsdoentry#1-title\finish{{%
% Can't fully expand XR#1-lof because it can contain anything. Just
% pass the control sequence. On the other hand, XR#1-pg is just the
% page number, and we want to fully expand that so we can get a link
% in pdf output.
\toksA = \expandafter{\csname XR#1-lof\endcsname}%
%
% use the same \entry macro we use to generate the TOC and index.
\edef\writeentry{\noexpand\entry{\the\toksA}{\csname XR#1-pg\endcsname}}%
\writeentry
}}
%
\message{localization,}
%
% For single-language documents, \texttt{\documentlanguage} is usually given very
% early, just after \texttt{\documentencoding}. Single argument is the language
% (de) or locale (de_DE) abbreviation.
%
\catcode`\_ = \active
\globaldefs=1
\parseargdef\documentlanguage{\begingroup
\let_=\normalunderscore % normal _ character for filenames
\tex \% read txi-??.tex file in plain TeX.
\% Read the file by the name they passed if it exists.
\message{no patterns for #1}
\else
\global\language = \csname lang@#1\endcsname
\fi
% but there is no harm in adjusting the hyphenmin values regardless.
\global\lefthyphenmin = #2\relax
\global\righthyphenmin = #3\relax
}

% Helpers for encodings.
% Set the catcode of characters 128 through 255 to the specified number.
%
\def\setnonasciicharscatcode#1{%
\count255=128
\loop\ifnum\count255<256
  \global\catcode\count255=#1\relax
  \advance\count255 by 1
\repeat
}

\def\setnonasciicharscatcodenonglobal#1{%
\count255=128
\loop\ifnum\count255<256
  \catcode\count255=#1\relax
  \advance\count255 by 1
\repeat
}

% @documentencoding sets the definition of non-ASCII characters
% according to the specified encoding.
%
\parseargdef\documentencoding{%
% Encoding being declared for the document.
\def\declaredencoding{\csname #1.enc\endcsname}
%
% Supported encodings: names converted to tokens in order to be able
% to compare them with \ifx.
\def\ascii{\csname US-ASCII.enc\endcsname}
\def\latnine{\csname ISO-8859-15.enc\endcsname}
\def\lattwo{\csname ISO-8859-2.enc\endcsname}
\def\utfeight{\csname UTF-8.enc\endcsname}
%
\ifx \declaredencoding \ascii
  \ascii\chardefs\active
\else \ifx \declaredencoding \lattwo
  \setnonasciicharscatcode\active
\let\lattwochardefs\%
\else\ife\ declaredencoding\latone
  \setnonasciicharscatcode\active
  \latonechardefs\%
\else\ife\ declaredencoding\latnine
  \setnonasciicharscatcode\active
  \latninechardefs\%
\else\ife\ declaredencoding\utfeight
  \setnonasciicharscatcode\active
  \utfeightchardefs\%
\else\fi%\utfeight
\fi%\latnine
\fi%\latone
\fi%\lattwo
\fi%\ascii
\fi
\message{Unknown document encoding #1, ignoring.}%
\fi%\utfeight
\fi%\latnine
\fi%\latone
\fi%\lattwo
\fi%\ascii
%
% A message to be logged when using a character that isn't available
% the default font encoding (OT1).
%
%\def\missingcharmsg#1{\message{Character missing in OT1 encoding: #1.}}
%
% Take account of `c (plain) vs. \ (Texinfo) difference.
%\def\cedilla#1{\ifx\c\ptexc\c{#1}\else{#1}\fi}
%
% First, make active non-ASCII characters in order for them to be
% correctly categorized when TeX reads the replacement text of
% macros containing the character definitions.
%\setnonasciicharscatcode\active
%
% Latin1 (ISO-8859-1) character definitions.
%\lattonechardefs{%
\gdef^^a0{\tie}
\gdef^^a1{\exclamdown}
\gdef^^a2{\missingcharmsg{CENT SIGN}}
\gdef^^a3{\missingcharmsg{\pounds}}
\gdef^^a4{\missingcharmsg{CURRENCY SIGN}}
\gdef^^a5{\missingcharmsg{YEN SIGN}}
\gdef^^a6{\missingcharmsg{BROKEN BAR}}
\gdef^^a7{\$}
\gdef^^a8{\^\{}
}
% Latin9 (ISO-8859-15) encoding character definitions.
\def\latinchardefs{%
% Encoding is almost identical to Latin1.
\latonechardefs%
\gdef^^a4{\texteuro}
\gdef^^a6{\v S}
\gdef^^a8{\v s}
\gdef^^b4{\v Z}
\gdef^^b8{\v z}
\gdef^^bc{\OE}
\gdef^^bd{\oe}
\gdef^^be{\"Y}
%
}

% Latin2 (ISO-8859-2) character definitions.
\def\lattwochardefs{%
\gdef^^a0{\tie}
\gdef^^a1{\ogonek{A}}
\gdef^^a2{\u{}}
\gdef^^a3{\L}
\gdef^^a4{\missingcharmsg{CURRENCY SIGN}}
\gdef^^a5{\v L}
\gdef^^a6{\VS}
\gdef^^a7{\S}
\gdef^^a8{\v{}}
\gdef^^a9{\v S}
\gdef^^aa{\cedilla S}
\gdef^^ab{\v T}
\gdef^^ac{\v Z}
\gdef^^ad{\-}
\gdef^^ae{\v Z}
\gdef^^af{\dotaccent Z}
%
\gdef^^b0{\textdegree}
\gdef^^b1{\ogonek{a}}
\gdef^^b2{\ogonek{ }}
\gdef^^b3{\l}
\gdef^^b4{\v{}}
\gdef^^b5{\v l}
\gdef^^b6{\vs}
\gdef^^b7{\v{}}
\gdef^^b8{\cedilla a}
\gdef^^b9{\v s}
\gdef^^ba{\cedilla s}
\gdef^^bb{\v t}
\gdef^^bc{\v z}
\gdef^^bd{\H{}}
FAIL

% UTF-8 character definitions.
%
% This code to support UTF-8 is based on LaTeX's utf8.def, with some
% changes for Texinfo conventions. It is included here under the GPL by
% permission from Frank Mittelbach and the LaTeX team.
%
\newcount\countUTFx
\newcount\countUTFy
\newcount\countUTFz

\def\UTFviiiTwoOctets#1#2{\expandafter
  \UTFviiiDefined\csname u8:#1\string #2\endcsname}
%
\def\UTFviiiThreeOctets#1#2#3{\expandafter
  \UTFviiiDefined\csname u8:#1\string #2\string #3\endcsname}
%
\def\UTFviiiFourOctets#1#2#3#4{\expandafter
  \UTFviiiDefined\csname u8:#1\string #2\string #3\string #4\endcsname}

\def\UTFviiiDefined#1{%
  \ifx \relax
    \message{\linenumber Unicode char \string #1 not defined for Texinfo}%
  \else
    \expandafter #1%
  \fi

Open Source Used In vEdge 20.1 20.1
Open Source Used In vEdge 20.1 20.1
\DeclareUnicodeCharacter{20AC}{\euro}
\DeclareUnicodeCharacter{2192}{\expansion}
\DeclareUnicodeCharacter{21D2}{\result}
\DeclareUnicodeCharacter{2212}{\minus}
\DeclareUnicodeCharacter{2217}{\point}
\DeclareUnicodeCharacter{2261}{\equiv}
% end of \utfeightchardefs

% US-ASCII character definitions.
def\asciichardefs{ % nothing need be done
  \relax
}
%
% Make non-ASCII characters printable again for compatibility with
% existing Texinfo documents that may use them, even without declaring a
% document encoding.
%
\setnonasciicharscatcode \other

\message{formatting,}
\newdimen\defaultparindent \defaultparindent = 15pt
\chapheadingskip = 15pt plus 4pt minus 2pt
\secheadingskip = 12pt plus 3pt minus 2pt
\subsecheadingskip = 9pt plus 2pt minus 2pt

% Prevent underfull vbox error messages.
\vbadness = 10000
%
% Don't be very finicky about underfull hboxes, either.
\hbadness = 6666
%
% Following George Bush, get rid of widows and orphans.
\widowpenalty=10000
\clubpenalty=10000
%
% Use TeX 3.0's \emergencystretch to help line breaking, but if we're
% using an old version of TeX, don't do anything. We want the amount of
% stretch added to depend on the line length, hence the dependence on
% \hsize. We call this whenever the paper size is set.
%
def\setemergencystretch{ %
  \ifx\emergencystretch\thisisundefined
   \emergencystretch=\hsize
  \fi
}
% Allow us to assign to \emergencystretch anyway.
% \def\emergencystretch{\dimen0}%
% \else
% \emergencystretch = .15\hsize
% \fi
%
% Parameters in order: 1) textheight; 2) textwidth;
% 3) voffset; 4) hoffset; 5) binding offset; 6) topskip;
% 7) physical page height; 8) physical page width.
%
% We also call \setleading{\textleading}, so the caller should define
% \textleading. The caller should also set \parskip.
%
% \def\internalpagesizes#1#2#3#4#5#6#7#8{%
% \voffset = #3\relax
% \topskip = #6\relax
% \splitlopskip = \topskip
%%
% \vsize = #1\relax
% \advance\vsize by \topskip
% \outervsize = \vsize
% \advance\outervsize by 2\topandbottommargin
% \pageheight = \vsize
%%
% \hsize = #2\relax
% \outerhsize = \hsize
% \advance\outerhsize by 0.5in
% \pagewidth = \hsize
%%
% \normaloffset = #4\relax
% \bindingoffset = #5\relax
%%
% \ifpdf
% \pdfpageheight #7\relax
% \pdfpagewidth #8\relax
% % if we don't reset these, they will remain at "1 true in" of
% % whatever layout pdftex was dumped with.
% \pdfhorigin = 1 true in
% \pdfvorigin = 1 true in
% \fi
%
% \setleading{\textleading}
% %
% \parindent = \defaultparindent
% \setemergencystretch
%
%}
\def\afourpaper{\globaldefs = 1
\parskip = 3pt plus 2pt minus 1pt
\textleading = 13.2pt
%
% Double-side printing via postscript on Laserjet 4050
% prints double-sided nicely when \bindingoffset=10mm and \hoffset=-6mm.
% To change the settings for a different printer or situation, adjust
% \normaloffset until the front-side and back-side texts align. Then
% do the same for \bindingoffset. You can set these for testing in
% your texinfo source file like this:
% @tex
% \global\normaloffset = -6mm
% \global\bindingoffset = 10mm
% @end tex
\internalpagesizes{673.2pt}{160mm}% that's 51 lines
\voffset \hoffset
\bindingoffset 44pt \% 
297mm 210mm \%
%
\tolerance = 700
\hfuzz = 1pt
\textwidth = 0pt
\defbodyindent = 5mm
}
%
% Use @afivepaper to print on European A5 paper.
% From romildo@urano.iceb.ufop.br, 2 July 2000.
% He also recommends making @example and @lisp be small.
\def\afivepaper{\globaldefs = 1
\parskip = 2pt plus 1pt minus 0.1pt
\textleading = 12.5pt
%
\internalpagesizes{160mm}{120mm}%
\voffset \hoffset
\bindingoffset 8pt \%
210mm 148mm \%
%
\lispnarrowing = 0.2in
\tolerance = 800
\hfuzz = 1.2pt
\textwidth = 0pt
\defbodyindent = 2mm
\tableindent = 12mm
}
%
% A specific text layout, 24x15cm overall, intended for A4 paper.
\def\afourlatex{\globaldefs = 1
\afourpaper
\internalpagesizes{237mm}{150mm}
 \{\voffset}{4.6mm}\%
 \{\bindingoffset}{7mm}\%
 \{297mm}{210mm}\%
%
% Must explicitly reset to 0 because we call \afourpaper.
\globaldefs = 0
}

% Use @afourwide to print on A4 paper in landscape format.
\def\afourwide{{\globaldefs = 1
\afourpaper
\internalpagesizes{241mm}{165mm}%
 \{\voffset}{-2.95mm}%
 \{\bindingoffset}{7mm}%
 \{297mm}{210mm}%
\globaldefs = 0
}}

% @pagesizes TEXTHEIGHT[,TEXTWIDTH]
% Perhaps we should allow setting the margins, \topskip, \parskip,
% and/or leading, also. Or perhaps we should compute them somehow.
%
\parseargdef\pagesizes\pagesizesyyy #1,\finish
\def\pagesizesyyy#1,#2,#3\finish{{%
\setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt \hsize=#2\relax \fi
\globaldefs = 1
%
\parskip = 3pt plus 2pt minus 1pt
\setleading{\textleading}%
%
\dimen0 = #1\relax
\advance\dimen0 by \voffset
%
\dimen2 = \hsize
\advance\dimen2 by \normaloffset
%
\internalpagesizes{#1}{\hsize}%
 \{\voffset}{\normaloffset}%
 \{\bindingoffset}{44pt}%
 \{\dimen0}{\dimen2}%
}}

% Set default to letter.
%
\letterpaper
\message{and turning on texinfo input format.}
\def^^L{\par} % remove \outer, so ^L can appear in an @comment

% DEL is a comment character, in case @c does not suffice.
\catcode`\^= 14

% Define macros to output various characters with catcode for normal text.
\catcode`\"=\other \def\normaldoublequote{"}
\catcode`\$=\other \def\normaldollar{$}% font-lock fix
\catcode`\+=\other \def\normalplus{+}
\catcode`\<=\other \def\normalless{<}
\catcode`\>=\other \def\normalgreater{>}
\catcode`\^=\other \def\normalcaret{^}
\catcode`\_=\other \def\normalunderscore{_}
\catcode`\|=\other \def\normalverticalbar{|}
\catcode`\~=\other \def\normaltilde{~}

% This macro is used to make a character print one way in \tt
% (where it can probably be output as-is), and another way in other fonts,
% where something hairier probably needs to be done.
%
% #1 is what to print if we are indeed using \tt; #2 is what to print
% otherwise. Since all the Computer Modern typewriter fonts have zero
% interword stretch (and shrink), and it is reasonable to expect all
% typewriter fonts to have this, we can check that font parameter.
%
\def\ifusingtt#1#2{\ifdim \fontdimen3\font=0pt #1\else #2\fi}

% Same as above, but check for italic font. Actually this also catches
% non-italic slanted fonts since it is impossible to distinguish them from
% italic fonts. But since this is only used by $ and it uses \sl anyway
% this is not a problem.
\def\ifusingit#1#2{\ifdim \fontdimen1\font>0pt #1\else #2\fi}

% Turn off all special characters except @
% (and those which the user can use as if they were ordinary).
% Most of these we simply print from the \tt font, but for some, we can
% use math or other variants that look better in normal text.

\catcode`\"=\active
\def\activedoublequote{[\tt\char34]}
\let\"=\activedoublequote
\catcode`\~=\active
\def\~{[\tt\char126]}
\chardef\hat=`\^{
\catcode`\^=\active
\def\^{[\tt \hat]}

% The story here is that in math mode, the char of \backslashcurfont
% ends up printing the roman \ from the math symbol font (because char
% in math mode uses the mathcode, and plain.tex sets
% \mathcode`\"=026E). It seems better for \backslashchar{} to always
% print a typewriter backslash, hence we use an explicit \mathchar,
% which is the decimal equivalent of 715c (class 7, e.g., use \fam;
% ignored family value; char position 5C). We can't use " for the
% usual hex value because it has already been made active.
@def@normalbackslash{ [ @ifmmode @mathchar29020 @else \backslashcurfont @fi ]}
@let@backslashchar = @normalbackslash % \backslashchar{} is for user documents.

% On startup, @fixbackslash assigns:
% \let \ = @normalbackslash
\rawbackslash defines an active \ to do \backslashcurfont.
% \otherbackslash defines an active \ to be a literal `\' character with
% catcode other. We switch back and forth between these.
@gdef@rawbackslash{ \let=\backslashcurfont}
@gdef@otherbackslash{ \let=\realbackslash}

% Same as @turnoffactive except outputs \ as \tt\char`\ Backslash instead of
% the literal character \ Backslash. Also revert - to its normal character, in
% case the active - from code has slipped in.
%
{ @catcode`- = @active
@gdef@normalturnoffactive{%
 \let-=@normaldash
 \let"=@normaldoublequote
 \let$=@normaldollar %$ font-lock fix
 \let+=@normalplus
 \let<=@normalless
 \let>=@normalgreater
 \let\=@normalbackslash
 \let^=@normalcaret
 \let_=@normalunderscore
 \let|=@normalverticalbar
 \let~=@normaltilde
 \markupsetuplqdefault
 \markupsetuprqdefault
 \unsepspaces
%
}
}%

% Make _ and + \other characters, temporarily.
% This is canceled by @fixbackslash.
@otherifyactive

% If a .fmt file is being used, we don't want the `input texinfo' to show up.
% That is what \eatinput is for; after that, the `\ should revert to printing
% a backslash.
%
@gdef@eatinput input texinfo{@fixbackslash}
@global@let\ = @eatinput

% On the other hand, perhaps the file did not have a `\input texinfo'. Then
% the first `\ in the file would cause an error. This macro tries to fix
% that, assuming it is called before the first `\ could plausibly occur.
% Also turn back on active characters that might appear in the input
% file name, in case not using a pre-dumped format.
%
@gdef@fixbackslash{%
@ifx\@eatinput @let\ = @normalbackslash @fi
@catcode`+=@active
@catcode`_=@active
}

% Say @foo, not \foo, in error messages.
@escapechar = ` @@

% These (along with & and #) are made active for url-breaking, so need
% active definitions as the normal characters.
@def@normaldot{.}
@def@normalquest{?}
@def@normalslash{/}

% These look ok in all fonts, so just make them not special.
% @hashchar{ } gets its own user-level command, because of #line.
@catcode`@ &= @other @def@normalamp{&}
@catcode`@# = @other @def@normalhash{#}
@catcode`@% = @other @def@normalpercent{ %}

@let @hashchar = @normalhash

@c Finally, make ` and ' active, so that txicodequoteundirected and
@c txicodequotefulltick work right in, e.g., @w{ @code{`foo'}}.  If we
@c don't make ` and ' active, @code will not get them as active chars.
@c Do this last of all since we use ` in the previous @catcode assignments.
@catcode`@` =@active
@catcode`@' =@active
@markupsetuplqdefault
@markupsetuprqdefault

@c Local variables:
@c eval: (add-hook `write-file-hooks `time-stamp)
@c page-delimiter: "^\\message"
@c time-stamp-start: "def\\texinfoversion{"
@c time-stamp-format: "%:y-%02m-%02d.%02H"
1.94 libffi/doc 3.2.1
1.94.1 Available under license :

#!/bin/sh

# ***** BEGIN LICENSE BLOCK *****
# Version: MPL 1.1/GPL 2.0/LGPL 2.1
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#
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#
# The Initial Developer of the Original Code is
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#
# ***** END LICENSE BLOCK *****
#
# GCC-compatible wrapper for cl.exe and ml.exe. Arguments are given in GCC
# format and translated into something sensible for cl or ml.
#
args_orig=$@
args="-nologo -W3"
static_crt=
debug_crt=
cl="cl"
ml="ml"
safeseh="-safeseh"
output=

while [ $# -gt 0 ]
do
case $1 in
  -fexceptions)
    # Don't enable exceptions for now.
    #args="$args -EHac"
    shift 1
    ;;
  -m32)
    shift 1
    ;;
  -m64)
    ml="ml64" # "$MSVC/x86_amd64/ml64"
    safeseh=
    shift 1
    ;;
  -clang-cl)
    cl="clang-cl"
    safeseh=
    shift 1
    ;;
  -O0)
    args="$args -Od"
    shift 1
    ;;
  -O*)
    # Runtime error checks (enabled by setting -RTC1 in the -DFFI_DEBUG
    # case below) are not compatible with optimization flags and will
    # cause the build to fail. Therefore, drop the optimization flag if
# -DFFI_DEBUG is also set.
case $args in
  *-DFFI_DEBUG*)
    args="$args"
    ;;
  *)
    # The ax_cc_maxopt.m4 macro from the upstream autoconf-archive
    # project doesn't support MSVC and therefore ends up trying to
    # use -O3. Use the equivalent "max optimization" flag for MSVC
    # instead of erroring out.
    case $1 in
      -O3)
        args="$args -O2"
        ;;
      *)
        args="$args $1"
        ;;
ezac
      esac
      opt="true"
      ;;
ezac
    shift 1
    ;;
  -g)
    # Enable debug symbol generation.
    args="$args -Zi"
    shift 1
    ;;
  -DFFI_DEBUG)
    # Enable runtime error checks.
    args="$args -RTC1"
    defines="$defines $1"
    shift 1
    ;;
  -DUSE_STATIC_RTL)
    # Link against static CRT.
    static_crt=1
    shift 1
    ;;
  -DUSE_DEBUG_RTL)
    # Link against debug CRT.
    debug_crt=1
    shift 1
    ;;
  -c)
    args="$args -c"
    args="$(echo $args | sed 's%/Fe%/Fo%g')"
    single="-c"
shift 1
::
-D*=*)
name="$(echo $1|sed 's/-D([^=][^=]*)=.*\|/g')"
value="$(echo $1|sed 's/-D[^=][^=]*=//g')"
args="$args -D$name='$value'
defines="$defines -D$name='$value'
shift 1
::
-D*)
args="$args $1"
defines="$defines $1"
shift 1
::
-I)
args="$args -I$2"
includes="$includes -I$2"
shift 2
::
-I*)
args="$args $1"
includes="$includes $1"
shift 1
::
-W|.-Wextra)
# TODO map extra warnings
shift 1
::
-Wall)
# -Wall on MSVC is overzealous, and we already build with -W3. Nothing
# to do here.
shift 1
::
-pedantic)
# libffi tests -pedantic with -Wall, so drop it also.
shift 1
::
-Werror)
args="$args -WX"
shift 1
::
-W*)
# TODO map specific warnings
shift 1
::
-S)
args="$args -FAs"
shift 1
```bash
::
-o)
outdir="$(dirname $2)"
base="$(basename $2|sed 's/\[\^\[.]*//g')"
if [-n "$single"] ; then
  output="-Fo$2"
else
  output="-Fe$2"
fi
if [-n "$assembly"] ; then
  args="$args $output"
else
  args="$args $output -Fd$outdir/$base -Fp$outdir/$base -Fa$outdir/$base"
fi
shift 2
::
*.S)
  src=$1
  assembly="true"
  shift 1
::
*.c)
  args="$args $1"
  shift 1
::
*
  # Assume it's an MSVC argument, and pass it through.
  args="$args $1"
  shift 1
::
esac
done

# If -Zi is specified, certain optimizations are implicitly disabled
# by MSVC. Add back those optimizations if this is an optimized build.
# NOTE: These arguments must come after all others.
if [-n "$opt"] ; then
  args="$args -link -OPT:REF -OPT:ICF -INCREMENTAL:NO"
fi
if [-n "$static_crt"] ; then
  md=MT
else
  md=MD
fi
if [-n "$debug_crt"] ; then
  md="${md}d"
```

if [ -n "$assembly" ]; then
  if [ -z "$outdir" ]; then
    outdir="."
  fi
  ppsrc="$outdir/$(basename $src|sed 's/.S$/asm/g')"
  fi
  echo "Scl -nologo -EP $includes $defines $src > $ppsrc"
  "Scl" -nologo -EP $includes $defines $src > $ppsrc || exit $?
  output="$(echo $output | sed 's%/F[dpa]\[^\s]*%%g')"
  args="-nologo $safeseh $single $output $ppsrc"
  echo "$ml $args"
  eval "$ml $args"
  result=$?
else
  args="$md $args"
  echo "$cl $args"
  # Return an error code of 1 if an invalid command line parameter is passed
  # instead of just ignoring it.
  eval "($cl $args 2>&1 1>&3 | awk '{print $0} /D9002/ {error=1} END{exit error}' >&2) 3>&1"
  result=$?
fi

exit $result

% texinfo.tex -- TeX macros to handle Texinfo files.
%
% Load plain if necessary, i.e., if running under initex.
\expandafter\ifx\csname fmtname\endcsname\relax\input plain\fi
%
def\texinfoversion{2013-02-01.11}
%
%
% This texinfo.tex file is free software: you can redistribute it and/or
% modify it under the terms of the GNU General Public License as
% published by the Free Software Foundation, either version 3 of the
% License, or (at your option) any later version.
%
% This texinfo.tex file is distributed in the hope that it will be
% useful, but WITHOUT ANY WARRANTY; without even the implied warranty
% of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
% General Public License for more details.
%
% You should have received a copy of the GNU General Public License
% along with this program. If not, see <http://www.gnu.org/licenses/>.
%
% As a special exception, when this file is read by TeX when processing
% a Texinfo source document, you may use the result without
% restriction. This Exception is an additional permission under section 7
% of the GNU General Public License, version 3 ("GPLv3").
%
% Please try the latest version of texinfo.tex before submitting bug
% reports; you can get the latest version from:
% http://ftp.gnu.org/gnu/texinfo/ (the Texinfo release area), or
% http://ftpmirror.gnu.org/texinfo/ (same, via a mirror), or
% http://www.gnu.org/software/texinfo/ (the Texinfo home page)
% The texinfo.tex in any given distribution could well be out
% of date, so if that's what you're using, please check.
%
% Send bug reports to bug-texinfo@gnu.org. Please include including a
% complete document in each bug report with which we can reproduce the
% problem. Patches are, of course, greatly appreciated.
%
% To process a Texinfo manual with TeX, it's most reliable to use the
% texi2dvi shell script that comes with the distribution. For a simple
% manual foo.texi, however, you can get away with this:
% tex foo.texi
% texindex foo.??
% tex foo.texi
% tex foo.texi
% dvips foo.dvi -o # or whatever; this makes foo.ps.
% The extra TeX runs get the cross-reference information correct.
% Sometimes one run after texindex suffices, and sometimes you need more
% than two; texi2dvi does it as many times as necessary.
%
% It is possible to adapt texinfo.tex for other languages, to some
% extent. You can get the existing language-specific files from the
% full Texinfo distribution.
%
% The GNU Texinfo home page is http://www.gnu.org/software/texinfo.

\message{Loading texinfo [version \texinfoversion]:}

% If in a .fmt file, print the version number
% and turn on active characters that we couldn't do earlier because
% they might have appeared in the input file name.
\everyjob{\message{[Texinfo version \texinfoversion]}}
\catcode`+=\active \catcode`\_=\active
\chardef\other=12

% We never want plain's \outer definition of \+ in Texinfo.
% For \texttt{\TeX}, we can use \texttt{\tabalign}.
\let\+ = \relax

% Save some plain \texttt{\TeX} macros whose names we will redefine.
\let\ptexb=\b
\let\ptexbullet=\bullet
\let\ptexc=\c
\let\ptexcomma=,\lt
\let\ptexdot=\.
\let\ptexdots=\dots
\let\ptexend=\end
\let\ptexequiv=\equiv
\let\ptexexclam=!\lt
\let\ptexfootnote=\footnote
\let\ptexgrtr=>
\let\ptexhat=^\lt
\let\ptexi=i\lt
\let\ptexindent=\indent
\let\ptexinsert=\insert
\let\ptexlbrace=\{
\let\ptexless=<\lt
\let\ptexnewwrite=\newwrite
\let\ptexnoindent=\noindent
\let\ptexplus=+\lt
\let\ptexraggedright=\raggedright
\let\ptexrbrace=\}\lt
\let\ptexslash=\slash\lt
\let\ptext=\t\lt
\let\ptextop=\top\lt
\catcode`\^=\active \global\let\ptexquoteright'=\lt % active in plain's math mode

% If this character appears in an error message or help string, it
% starts a new line in the output.
\newlinechar = `\^^J

% Use TeX 3.0's \texttt{\inputlineno} to get the line number, for better error
% messages, but if we're using an old version of TeX, don't do anything.
%\ifx\inputlineno\thisisundefined
\let\linenumber = \empty % Pre-3.0.
\else
\def\linenumber{line \the\inputlineno} %active in \texttt{\inputlineno}
\fi
\fi

\% Set up fixed words for English if not already set.
\ifx\putwordAppendix\undefined \gdef\putwordAppendix{Appendix}\fi
\ifx\putwordChapter\undefined \gdef\putwordChapter{Chapter}\fi
\ifx\putworderror\undefined \gdef\putworderror{error}\fi
\ifx\putwordfile\undefined \gdef\putwordfile{file}\fi
\ifx\putwordin\undefined \gdef\putwordin{in}\fi
\ifx\putwordIndexIsEmpty\undefined \gdef\putwordIndexIsEmpty{(Index is empty)}\fi
\ifx\putwordIndexNonexistent\undefined \gdef\putwordIndexNonexistent{(Index is nonexistent)}\fi
\ifx\putwordInfo\undefined \gdef\putwordInfo{Info}\fi
\ifx\putwordInstanceVariableof\undefined \gdef\putwordInstanceVariableof{Instance Variable of}\fi
\ifx\putwordMethodon\undefined \gdef\putwordMethodon{Method on}\fi
\ifx\putwordNoTitle\undefined \gdef\putwordNoTitle{No Title}\fi
\ifx\putwordof\undefined \gdef\putwordof{of}\fi
\ifx\putwordon\undefined \gdef\putwordon{on}\fi
\ifx\putwordpage\undefined \gdef\putwordpage{page}\fi
\ifx\putwordsection\undefined \gdef\putwordsection{section}\fi
\ifx\putwordSection\undefined \gdef\putwordSection{Section}\fi
\ifx\putwordsee\undefined \gdef\putwordsee{see}\fi
\ifx\putwordSee\undefined \gdef\putwordSee{See}\fi
\ifx\putwordShortTOC\undefined \gdef\putwordShortTOC{Short Contents}\fi
\ifx\putwordTOC\undefined \gdef\putwordTOC{Table of Contents}\fi
\% Since the category of space is not known, we have to be careful.
\chardef\spacecat = 10
\def\spaceisspace\catcode`\ =\spacecat

\% sometimes characters are active, so we need control sequences.
% Ignore a token.
% 
\def\gobble#1{}

% The following is used inside several \edef's.
\def\makecsname#1{\expandafter\noexpand\csname#1\endcsname}

% Hyphenation fixes.
\hyphenation{
Flor-i-da Ghost-script Ghost-view Mac-OS Post-Script
ap-pen-dix bit-map bit-maps
data-base data-bases eshell fall-ing half-way long-est man-u-script
man-u-scripts mini-buf-fer mini-buf-fers over-view par-a-digm
par-a-digms rath-er rec-tan-gu-lar ro-bot-ics se-ver-e-ly set-up spa-ces
spell-ing spell-ings
stand-alone strong-est time-stamp time-stamps which-ever white-space
wide-spread wrap-around
}

% Margin to add to right of even pages, to left of odd pages.
\newdimen\bindingoffset
\newdimen\normaloffset
\newdimen\pagewidth \newdimen\pageheight

% For a final copy, take out the rectangles
% that mark overfull boxes (in case you have decided
% that the text looks ok even though it passes the margin).
% 
\def\finalout{\overfullrule=0pt }

% Sometimes it is convenient to have everything in the transcript file
% and nothing on the terminal. We don’t just call \tracingall here,
% since that produces some useless output on the terminal. We also make
% some effort to order the tracing commands to reduce output in the log
% file; cf. trace.sty in LaTeX.
%
\def\gloggingall{\begingroup \globaldefs = 1 \loggingall \endgroup}%
\def\loggingall{%
  \tracingstats2
  \tracingpages1
  \tracinglostchars2 % 2 gives us more in etex
  \tracingparagraphs1
  \tracingoutput1
  \tracingmacros2
  \tracingrestores1
  \showboxbreadth\maxdimen \showboxdepth\maxdimen
  \if\eTeXversion\thisisundefined\else % etex gives us more logging
    \tracingscantokens1
    \tracingifs1
    \tracinggroups1
    \tracingnesting2
    \tracingassigns1
  \fi
  \tracingcommands3 % 3 gives us more in etex
  \errorcontextlines16 
}%

% @errormsg [MSG]. Do the index-like expansions on MSG, but if things
% aren't perfect, it's not the end of the world, being an error message,
% after all.
%
\def\errormsg{\begingroup \indexnofonts \doerrormsg}
\def\doerrormsg#1{\errmessage{#1}}

% add check for \lastpenalty to plain's definitions. If the last thing
% we did was a \nobreak, we don't want to insert more space.
%
\def\smallbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\smallskipamount
  \removelastskip\penalty-50\smallskip\fi\fi}
\def\medbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\medskipamount
  \removelastskip\penalty-100\medskip\fi\fi}
\def\bigbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\bigskipamount
  \removelastskip\penalty-200\bigskip\fi\fi}

% Do @cropmarks to get crop marks.
%
\newif\ifcropmarks
\let\cropmarks = \cropmarkstrue
%
% Dimensions to add crop marks at corners.
% Added by P. A. MacKay, 12 Nov. 1986
%

Open Source Used In vEdge 20.1 20.1
% Output a mark which sets \thischapter, \thissection and \thiscolor.
% We dump everything together because we only have one kind of mark.
% This works because we only use \botmark / \topmark, not \firstmark.
%
% A mark contains a subexpression of the \ifcase ... \fi construct.
% \get*marks macros below extract the needed part using \ifcase.
%
% Another complication is to let the user choose whether \thischapter
% \& (thissection) refers to the chapter (section) in effect at the top
% of a page, or that at the bottom of a page.  The solution is
% described on page 260 of The TeXbook.  It involves outputting two
% marks for the sectioning macros, one before the section break, and
% one after.  I won't pretend I can describe this better than DEK...
\def\domark{%
\toks0=\expandafter{\lastchapterdefs}\toks2=\expandafter{\lastsectiondefs}\toks4=\expandafter{\prevchapterdefs}\toks6=\expandafter{\prevsectiondefs}\toks8=\expandafter{\lastcolordefs}\mark{%
\the\toks0 \the\toks2
\noexpand\or \the\toks4 \the\toks6
\noexpand\else \the\toks8
}%
}%
% \topmark doesn't work for the very first chapter (after the title
% page or the contents), so we use \firstmark there -- this gets us
% the mark with the chapter defs, unless the user sneaks in, e.g.,
% @setcolor (or @url, or @link, etc.) between @contents and the very
% first @chapter.
\def\gettopheadingmarks{%
\ifcase0\topmark\fi
\ifx\thischapter\empty \ifcase0\firstmark\fi \fi
}%
\def\getbottomheadingmarks{\ifcase1\botmark\fi}
\def\getcolormarks{\ifcase2\topmark\fi}
% Avoid "undefined control sequence" errors.
\def\lastchapterdefs{ }
\def\lastsectiondefs{ }
\def\prevchapterdefs{ }
\def\prevsectiondefs{ }
\def\lastcolordefs{ }
% Main output routine.
\chardef PAGE = 255
\output = {\onepageout{\pagecontents\PAGE}}

\newbox\headlinebox
\newbox\footlinebox

% \onepageout takes a vbox as an argument. Note that \pagecontents
% does insertions, but you have to call it yourself.
\def\onepageout#1{\% 
\ifcropmarks \hoffset=0pt \else \hoffset=\normaloffset \fi 
\% \ifodd\pageno \advance\hoffset by \bindingoffset 
\else \advance\hoffset by -\bindingoffset \fi 
\% \Do this outside of the \shipout so \code etc. will be expanded in
% the headline as they should be, not taken literally (outputting `\code). 
\ifodd\pageno \getoddheadingmarks \else \getevenheadingmarks \fi 
\setbox\headlinebox = \vbox{\let\hsize=\pagewidth \makeheadline} \%
\ifodd\pageno \getoddfootingmarks \else \getevenfootingmarks \fi 
\setbox\footlinebox = \vbox{\let\hsize=\pagewidth \makefootline} \%
\%
% \indexdummies \% don’t expand commands in the output.
\normalturnoffactive \% \in index entries must not stay \, e.g., if
% the page break happens to be in the middle of an example.
% We don’t want .vr (or whatever) entries like this:
% \entry{{\tt \indexbackslash }acronym}{32}{\code {\acronym}} 
% "acronym" won’t work when it’s read back in;
% it needs to be
% \% \code {{\tt \backslashcurfont }acronym}
\shipout\vbox{\% 
% Do this early so pdf references go to the beginning of the page.
\ifpdfmakepagedest \pdfdest name{\the\pageno} xyz\fi
% \ifcropmarks \vbox to \outervsize\bgroup 
\hsize = \outerhsize
\skip-topandbottommargin
\vtop to0pt{\%
\line{\ewtop\hfil\ewtop}\%
\nointerlineskip
\line{\%
\vbox{\moveleft\cornerthick\nstop}\
\} 
}
% Here are the rules for the cropmarks. Note that they are
% offset so that the space between them is truly \outerhsize or \outervsize
% (P. A. MacKay, 12 November, 1986)
%
\edef\ewtop{\vrule height\cornerthick depth0pt width\cornerlong}
\edef\nsbot{\vbox{
\hrule height\cornerthick depth\cornerlong width\cornerthick}}
\edef\ewbot{\vrule height0pt depth\cornerthick width\cornerlong}
\edef\nstop{\vbox{
\hrule height\cornerlong depth\cornerthick width\cornerthick}}
%
% Parse an argument, then pass it to #1. The argument is the rest of
% the input line (except we remove a trailing comment). #1 should be a
% macro which expects an ordinary undelimited TeX argument.
%
\def\parsearg{\parseargusing{ }}
\def\parseargusing#1#2{%
\def\argtorun{#2}
\begingroup
\obeylines
\spaceisspace
#1
\parseargline\empty% Insert the \empty token, see \finishparsearg below.
\endgroup
}
{
\obeylines
\gdef\parseargline#1^^M{%\endgroup
% \finishparsearg
\argremovecomment #1\comment\ArgTerm
}
}
%
% First remove any @comment, then any @c comment.
% \argremovecomment
\def\argremovecomment#1\comment#2\ArgTerm{%\argremovec #1\c#2\ArgTerm
}
\def\argremovec#1\c#2\ArgTerm{%\argcheckspaces#1\^^M\ArgTerm
}
%
% Each occurrence of `\^^M' or `<space>\^^M' is replaced by a single space.
%
% \argremovec might leave us with trailing space, e.g.,
% \@end itemize \@c foo
% This space token undergoes the same procedure and is eventually removed % by \finishparsearg.
\%  
\def\argcheckspaces#1\^^M{\argcheckspacesX#1\^^M \^^M}  
\def\argcheckspacesX#1 \^^M{\argcheckspacesY#1\^^M}  
\def\argcheckspacesY#1\^^M#2\^^M#3\ArgTerm{\%  
  \def\temp[#3]{\%  
    \ifx\temp\empty \% Do not use \next, perhaps the caller of \parsearg uses it; reuse \temp:  
      \let\temp\finishparsearg \else \let\temp\argcheckspaces \fi \% Put the space token in:  
      \temp#1 #3\ArgTerm
  {\%  
    If a _delimited_ argument is enclosed in braces, they get stripped; so % to get _exactly_ the rest of the line, we had to prevent such situation. % We prepended an \empty token at the very beginning and we expand it now, % just before passing the control to \argtorun. % (Similarly, we have to think about #3 of \argcheckspacesY above: it is % either the null string, or it ends with \^^M---thus there is no danger % that a pair of braces would be stripped. %}  
  \% But first, we have to remove the trailing space token. \%  
  \def\finishparsearg#1 \ArgTerm{\expandafter\argtorun\expandafter{#1}}}  
\% \parseargdef\foo{...} \% is roughly equivalent to \% \def\foo{\parsearg\Xfoo}  
\% \def\Xfoo#1{...} \%  
\% Actually, I use \csname\string\foo\endcsname, ie. \foo, as it is my \% favourite TeX trick. --kasal, 16nov03
\def\parseargdef#1{\%  
  \expandafter \doparseargdef \csname\string#1\endcsname #1\%  
}  
\def\doparseargdef#1#2{\%  
  \def#2##1\%  
}  
\% Several utility definitions with active space:
{\%  
  \obeyspaces

\obeyedspace{ }

% Make each space character in the input produce a normal interword
% space in the output. Don't allow a line break at this space, as this
% is used only in environments like @example, where each line of input
% should produce a line of output anyway.
% \gdef\sepspaces{\obeyspaces\let =\tie}
%
% If an index command is used in an @example environment, any spaces
% therein should become regular spaces in the raw index file, not the
% expansion of \tie (\leavevmode \penalty \@M \ ).
% \gdef\unsepspaces{\let =\space}
}

\flushcr{\ifx\par\lisppar \def\next##1{}\else \let\next=\relax \fi \next}

% Define the framework for environments in texinfo.tex. It's used like this:
% % \envdef\foo{...}
% % \def\Efoo{...}
% %
% % It's the responsibility of \envdef to insert \begingroup before the
% % actual body; @end closes the group after calling \Efoo. \envdef also
% % defines \thisenv, so the current environment is known; @end checks
% % whether the environment name matches. The \checkenv macro can also be
% % used to check whether the current environment is the one expected.
% %
% % Non-false conditionals (@iftex, @ifset) don't fit into this, so they
% % are not treated as environments; they don't open a group. (The
% % implementation of @end takes care not to call \endgroup in this
% % special case.)
%
% At run-time, environments start with this:
\def\startenvironment#1{\begingroup\def\thisenv{#1}}
% initialize
\let\thisenv\empty

% ... but they get defined via ``\envdef\foo[...]``:
\longdef\envdef#1#2{\def#1{\startenvironment#1#2}}
\def\envparseargdef#1#2{\parseargdef#1{\startenvironment#1#2}}

% Check whether we're in the right environment:
\def\checkenv#1{%
  \def\temp{#1}%
  \ifx\thisenv\temp

\else
  \badenverr
\fi
}

% Environment mismatch, #1 expected:
\def\badenverr{%
  \errhelp = \EMsimple
  \errmessage{This command can appear only \inenvironment\temp,
    not \inenvironment\thisenv}%
}
\def\inenvironment#1{%
  \ifx#1\empty
    outside of any environment%
  \else
    in environment \expandafter\string#1%
  \fi
}

% @end foo executes the definition of \Efoo.
% But first, it executes a specialized version of \checkenv
%
\parseargdef\end{%
  \if 1\csname iscond.#1\endcsname
  \else
    % The general wording of \badenverr may not be ideal.
    \expandafter\checkenv\csname#1\endcsname
    \csname E#1\endcsname
    \endgroup
  \fi
}

\newhelp\EMsimple{Press RETURN to continue.}

% Be sure we're in horizontal mode when doing a tie, since we make space
% equivalent to this in @example-like environments. Otherwise, a space
% at the beginning of a line will start with \penalty -- and
% since \penalty is valid in vertical mode, we'd end up putting the
% penalty on the vertical list instead of in the new paragraph.
{\catcode`@ = 11
% Avoid using \@M directly, because that causes trouble
% if the definition is written into an index file.
\global\let\tiepenalty = \@M
\gdef\tie{\leavevmode\penalty\tiepenalty\ }
}

% @: forces normal size whitespace following.
\def\:{\spacefactor=1000 }

% @* forces a line break.
\def*{\unskip\hfil\break\hbox{}\ignorespaces }

% @/ allows a line break.
\let/=\allowbreak

% @. is an end-of-sentence period.
\def\{.\spacefactor=\endofsentencespacefactor\space}

% @! is an end-of-sentence bang.
\def!{!\spacefactor=\endofsentencespacefactor\space}

% @? is an end-of-sentence query.
\def?!{?\spacefactor=\endofsentencespacefactor\space}

% @frenchspacing on|off  says whether to put extra space after punctuation.
% 
\def\onword{on}
\def\offword{off}
%
\parseargdef\frenchspacing{%
\def\temp{#1}%
\ifx\temp\onword \plainfrenchspacing
\else\ifx\temp\offword \plainnonfrenchspacing
\else
\errhelp = \EMsimple
\errmessage{Unknown @frenchspacing option `\temp', must be on|off}%
\fi
\fi
}

% @w prevents a word break. Without the \leavevmode, @w at the
% beginning of a paragraph, when TeX is still in vertical mode, would
% produce a whole line of output instead of starting the paragraph.
\def\w#1{\leavevmode\hbox{#1}}

% @group ... @end group forces ... to be all on one page, by enclosing
% it in a TeX vbox. We use \vtop instead of \vbox to construct the box
% to keep its height that of a normal line. According to the rules for
% topskip (p.114 of the TeXbook), the glue inserted is
% max (topskip - \ht (first item), 0). If that height is large,
% therefore, no glue is inserted, and the space between the headline and
% the text is small, which looks bad.
%
% Another complication is that the group might be very large. This can
% cause the glue on the previous page to be unduly stretched, because it
% does not have much material. In this case, it's better to add an
% explicit \vfill so that the extra space is at the bottom. The
% threshold for doing this is if the group is more than \vfilllimit
% percent of a page (\vfilllimit can be changed inside of @tex).
%
\newbox\groupbox
\def\vfilllimit{0.7}
%
\envdef\group{%
  \ifnum\catcode`\^^M=\active 
  \else
  \errhelp = \groupinvalidhelp
  \errmessage[@group invalid in context where filling is enabled]%
  \fi
  \startsavinginserts
%
\setbox\groupbox = \vtop\bgroup
  \ifcomment since we are called inside an environment such as
  \example, where each end-of-line in the input causes an
  end-of-line in the output. We don't want the end-of-line after
  the `@group' to put extra space in the output. Since @group
  should appear on a line by itself (according to the Texinfo
  manual), we don't worry about eating any user text.
\comment}
%
% The \vtop produces a box with normal height and large depth; thus, TeX puts
% \baselineskip glue before it, and (when the next line of text is done)
% \lineskip glue after it. Thus, space below is not quite equal to space
% above. But it's pretty close.
\def\Egroup{%
  \endgraf % Not \par, as it may have been set to \lisppar.
  \global\dimen1 = \prevdepth
  \egroup           % End the \vtop.
  \dimen0 = \ht\groupbox \advance\dimen0 by \dp\groupbox
  \ifdim \dimen0 > \dimen2
  \ifdim \pagetotal < \vfilllimit\pageheight
    \page
  \fi
  \fi
  \box\groupbox
  \prevdepth = \dimen1
  \checkinserts
\newhelp\groupinvalidhelp{%
group can only be used in environments such as @example,\^J%
where each line of input produces a line of output.}

% @need space-in-mils
% forces a page break if there is not space-in-mils remaining.

\newdimen\mil \mil=0.001in

\parseargdef\need[%
% Ensure vertical mode, so we don't make a big box in the middle of a
% paragraph.
\par
%
% If the @need value is less than one line space, it's useless.
\dimen0 = #1\mil
\dimen2 = \ht\strutbox
\advance\dimen2 by \dp\strutbox
\ifdim\dimen0 > \dimen2
%
% Do a \strut just to make the height of this box be normal, so the
% normal leading is inserted relative to the preceding line.
% And a page break here is fine.
\vtop to #1\mil{\strut\vfil}%
%
% TeX does not even consider page breaks if a penalty added to the
% main vertical list is 10000 or more. But in order to see if the
% empty box we just added fits on the page, we must make it consider
% page breaks. On the other hand, we don't want to actually break the
% page after the empty box. So we use a penalty of 9999.
%
% There is an extremely small chance that TeX will actually break the
% page at this \penalty, if there are no other feasible breakpoints in
% sight. (If the user is using lots of big @group commands, which
% almost-but-not-quite fill up a page, TeX will have a hard time doing
% good page breaking, for example.) However, I could not construct an
% example where a page broke at this \penalty; if it happens in a real
% document, then we can reconsider our strategy.
\penalty9999
%
% Back up by the size of the box, whether we did a page break or not.
\kern -#1\mil
%}
% Do not allow a page break right after this kern.
\nobreak
\fi
}

% @br forces paragraph break (and is undocumented).
\def\br = \par

% @page forces the start of a new page.
% 
\def\page{\par\vfill\supereject}

% @exdent text....
% outputs text on separate line in roman font, starting at standard page margin

% This records the amount of indent in the innermost environment.
% That's how much \exdent should take out.
\newskip\exdentamount

% This defn is used inside fill environments such as @defun.
\parseargdef\exdent{\hfil\break\hbox{\kern -\exdentamount\rm#1}}\hfil\break

% This defn is used inside nofill environments such as @example.
\parseargdef\nofillxdent{{\advance \leftskip by -\exdentamount
\leftline{\hskip\leftskip\rm#1}}}
\def\inleftmargin{\doinmargin l}
\def\inrightmargin{\doinmargin r}
%
% @inmargin{TEXT [, RIGHT-TEXT]}
% (if RIGHT-TEXT is given, use TEXT for left page, RIGHT-TEXT for right;
% else use TEXT for both).
%
\def\inmargin#1{\parseinmargin #1,,\finish}
\def\parseinmargin#1,#2,#3\finish{% not perfect, but better than nothing.
\setbox0 = \hbox{\ignorespaces #2}\
\ifdim\wd0 > 0pt
\def\lefttext{#1}%  have both texts
\def\righttext{#2}\
\else
\def\lefttext{#1}%  have only one text
\def\righttext{#1}\
\fi
%
\ifodd\pageno
\def\temp{\inrightmargin\righttext}% odd page -> outside is right margin
\else
\def\temp{\inleftmargin\lefttext}%
\fi
\temp
}
%
% @| inserts a changebar to the left of the current line.  It should
% surround any changed text.  This approach does *not* work if the
% change spans more than two lines of output.  To handle that, we would
% have adopt a much more difficult approach (putting marks into the main
% vertical list for the beginning and end of each change).  This command
% is not documented, not supported, and doesn't work.
%
\def\{|%\\leavevmode
% \vadjust can only be used in horizontal mode.
\leavevmode
%
% Append this vertical mode material after the current line in the output.
\vadjust{%\\leavevmode
% We want to insert a rule with the height and depth of the current
% leading; that is exactly what \strutbox is supposed to record.
\vskip-\baselineskip
\\llap{%\%\\vadjust-items are inserted at the left edge of the type.  So
\% the \llap here moves out into the left-hand margin.
\llap{%
\% For a thicker or thinner bar, change the `1pt'.
\vrule height1\baselineskip width1pt
\%
\% This is the space between the bar and the text.
\hskip12pt
}\%
\%
}

\%
\% @include FILE -- \input text of FILE.
\%
\def\include{\parseargusing\filenamecatcodes\includezzz}
\def\includezzz#1{%
\pushthisfilestack
\def\thisfile{#1}%
{%
\makevalueexpandable % we want to expand any @value in FILE.
\turnoffactive % and allow special characters in the expansion
\indexnofonts % Allow `@@' and other weird things in file names.
\wlog{texinfo.tex: doing @include of #1^^J}%
\edef\temp{\noexpand\input #1 }%
%
% This trickery is to read FILE outside of a group, in case it makes
% definitions, etc.
\expandafter
\temp
\popthisfilestack
}
\def\filenamecatcodes{%
\catcode`\=other
\catcode`~=other
\catcode`^=other
\catcode`_=other
\catcode`|=other
\catcode`<=other
\catcode`>=other
\catcode`+=other
\catcode`-=other
\catcode`\`=other
\catcode`\=other
\catcode`\|=other
\catcode`\-=other
\catcode`\+=other
\catcode`\\=other
\%}
\def\pushthisfilestack{%
\expandafter\pushthisfilestackX\popthisfilestack\StackTerm
}
\def\pushthisfilestackX{%
\expandafter\pushthisfilestackY\thisfile\StackTerm
\def\pushthisfilestackY #1\StackTerm #2\StackTerm {%
  \def\popthisfilestack{\def\thisfile{#1}\def\popthisfilestack{#2}}%
}\def\popthisfilestack{\errthisfilestackempty}
\def\errthisfilestackempty{\errmessage{Internal error: the stack of filenames is empty.}}%
\def\thisfile{}

% @center line
% outputs that line, centered.
%
\parseargdef\center[ %
  \ifhmode
    \let\centersub\centerH
  \else
    \let\centersub\centerV
  \fi
  \centersub{\hfil \ignorespaces #1 \unskip \hfil}%
  \let\centersub\relax % don't let the definition persist, just in case
}%
\def\centerH#1{{%
  \hfil \break
  \advance\hsize by -\leftskip
  \advance\hsize by -\rightskip
  \line{#1}\%
  \break
} }
%
\newcount\centerpenalty
\def\centerV#1{%
  % The idea here is the same as in \startdefun, \cartouche, etc.: if
  % @center is the first thing after a section heading, we need to wipe
  % out the negative parskip inserted by \sectionheading, but still
  % prevent a page break here.
  \centerpenalty = \lastpenalty
  \ifnum\centerpenalty>10000 \vskip \parskip \fi
  \ifnum\centerpenalty>9999 \penalty \centerpenalty \fi
  \line{\kern\leftskip #1 \kern\rightskip}%
} }
%
% @sp n   outputs n lines of vertical space
%
\parseargdef\sp{\vskip \baselineskip}
%
% @comment ...line which is ignored...
% @c is the same as @comment
% @ignore ... @end ignore is another way to write a comment
%
\def\comment{\begingroup\catcode`\^^M=\other \catcode`\@=\other \catcode`\{=\other \catcode`\}=\other \commentxxx}
\{\catcode`\^^M=\other \gdef\commentxxx#1\^^M{\endgroup} \}
%
\let\c=\comment
%
% @paragraphindent NCHARS
% We'll use ems for NCHARS, close enough.
% NCHARS can also be the word `asis' or `none'.
% We cannot feasibly implement @paragraphindent asis, though.
%
\def\asisword{asis} % no translation, these are keywords
\def\noneword{none}
%
\parseargdef\paragraphindent{\% \def\temp{#1}\% \ifx\temp\asisword
\else
  \ifx\temp\noneword
    \defaultparindent = 0pt
  \else
    \defaultparindent = #1em
  \fi
\fi
\parindent = \defaultparindent
}
%
% @exampleindent NCHARS
% We'll use ems for NCHARS like @paragraphindent.
% It seems @exampleindent asis isn't necessary, but
% I preserve it to make it similar to @paragraphindent.
\parseargdef\exampleindent{\% \def\temp{#1}\% \ifx\temp\asisword
\else
  \ifx\temp\noneword
    \lispnarrowing = 0pt
  \else
    \lispnarrowing = #1em
  \fi
\fi
}
%
% @firstparagraphindent WORD
% If WORD is 'none', then suppress indentation of the first paragraph
% after a section heading. If WORD is 'insert', then do indent at such
% paragraphs.
%
% The paragraph indentation is suppressed or not by calling
% \suppressfirstparagraphindent, which the sectioning commands do.
% We switch the definition of this back and forth according to WORD.
% By default, we suppress indentation.
%
def\suppressfirstparagraphindent{\dosuppressfirstparagraphindent}
def\insertword{insert}
%
\parseargdef\firstparagraphindent{%
\def\temp{#1}%
\ifndef\temp\noneword
 \let\suppressfirstparagraphindent = \dosuppressfirstparagraphindent
\else\ifndef\temp\insertword
 \let\suppressfirstparagraphindent = \relax
\else
 \errhelp = \EMsimple
 \errmessage{Unknown @firstparagraphindent option `\temp'}%
 \fi\fi
}
%
Here is how we actually suppress indentation. Redefine `everypar to
% \kern backwards by `parindent, and then reset itself to empty.
%
% We also make `indent itself not actually do anything until the next
% paragraph.
%
def\dosuppressfirstparagraphindent{%
def\indent{%
 \restorefirstparagraphindent
 \indent
}
def\noindent{%
 \restorefirstparagraphindent
 \noindent
}
global\everypar = {%
 \kern -\parindent
 \restorefirstparagraphindent
}
%
}
global\everypar = {%
 \kern -\parindent
 \restorefirstparagraphindent
}
%
}
global \indent = \ptexindent
\global \let \noindent = \ptexnoindent
\global \everypar = {}
}

% @refill is a no-op.
def\refill=\relax

% If working on a large document in chapters, it is convenient to
% be able to disable indexing, cross-referencing, and contents, for test runs.
% This is done with @novalidate (before @setfilename).
%
def\setfilename = \linkstrue % by default we want the aux files.
def\novalidate = \linksfalse

% @setfilename is done at the beginning of every texinfo file.
% So open here the files we need to have open while reading the input.
% This makes it possible to make a .fmt file for texinfo.
def\setfilename[
\fixbackslash % Turn off hack to swallow `\input texinfo'.
\fllinks
\tryauxfile
  % Open the new aux file.  TeX will close it automatically at exit.
  \immediate\openout\auxfile=\jobname.aux
\fi % \openindices needs to do some work in any case.
\openindices
\let\setfilename=\comment % Ignore extra @setfilename cmds.
%
% If texinfo.cnf is present on the system, read it.
% Useful for site-wide @a4paper, etc.
openin 1 texinfo.cnf
\ifeof 1 \else `\input texinfo.cnf' \fi
closein 1
%
\comment % Ignore the actual filename.
}

% Called from \setfilename.
%
def\openindices[
\newindex {cp}%
\newcodeindex {fn}%
\newcodeindex {vr}%
\newcodeindex {tp}%
\newcodeindex {ky}%
\newcodeindex {pg}%
}

% @bye.
% when pdfTeX is run in dvi mode, \pdfoutput is defined (so \pdfoutput=1 can be set). So we test for \relax and 0 as well as being undefined.\ifx \pdfoutput \thisisundefined \else \ifx \pdfoutput \relax \else \ifcase \pdfoutput \else \pdftrue \fi \fi \fi

% PDF uses PostScript string constants for the names of xref targets, % for display in the outlines, and in other places. Thus, we have to % double any backslashes. Otherwise, a name like "\node" will be % interpreted as a newline (\n), followed by o, d, e. Not good. %
% See http://www.ntg.nl/pipermail/ntg-pdftex/2004-July/000654.html and % related messages. The final outcome is that it is up to the TeX user % to double the backslashes and otherwise make the string valid, so % that's what we do. pdfTeX 1.30.0 (ca.2005) introduced a primitive to % do this reliably, so we use it.

% #1 is a control sequence in which to do the replacements, % which we \xdef.\def \txiescapepdf #1 {\if \pdfescapestring \thisisundefined \else \if \pdfoutput \relax \else \ifcase \pdfoutput \else \pdftrue \fi \fi \fi

% No primitive available; should we give a warning or log?
Many times it won't matter.

\def\rgbDarkRed{0.50 0.09 0.12}
\def\rgbBlack{0 0 0}

% k sets the color for filling (usual text, etc.);
% K sets the color for stroking (thin rules, e.g., normal _'s).
def\pdfsetcolor#1{\pdfliteral{#1 rg #1 RG}}

% Set color, and create a mark which defines thiscolor accordingly,
% so that \makeheadline knows which color to restore.
def\setcolor#1{\xdef\lastcolordefs{\gdef
oexpand\thiscolor{#1}}%\domark\pdfsetcolor{#1}%
}

def\maincolor{\rgbBlack}
\pdfsetcolor{\maincolor}
def\thiscolor{\maincolor}
def\lastcolordefs{ }

def\makefootline{\baselineskip24pt\line{\pdfsetcolor{\maincolor}the\footline}%
}

def\makeheadline{\vbox to 0pt{\vskip-22.5pt\line{%
}

\newhelp\nopdfimagehelp{Texinfo supports .png, .jpg, .jpeg, and .pdf images with PDF output, and none of those formats could be found. (.eps cannot be supported due to the design of the PDF format; use regular TeX (DVI output) for that.)}

\ifpdf
% Color manipulation macros based on pdfcolor.tex,
% except using rgb instead of cmyk; the latter is said to render as a
% very dark gray on-screen and a very dark halftone in print, instead
% of actual black.
def\rgbDarkRed{0.50 0.09 0.12}
def\rgbBlack{0 0 0}

% k sets the color for filling (usual text, etc.);
% K sets the color for stroking (thin rules, e.g., normal _'s).
def\pdfsetcolor#1{\pdfliteral{#1 rg #1 RG}}

% Set color, and create a mark which defines thiscolor accordingly,
% so that \makeheadline knows which color to restore.
def\setcolor#1{\xdef\lastcolordefs{\gdef
oexpand\thiscolor{#1}}%\domark\pdfsetcolor{#1}%
}

% k sets the color for filling (usual text, etc.);
% K sets the color for stroking (thin rules, e.g., normal _'s).
def\pdfsetcolor#1{\pdfliteral{#1 rg #1 RG}}

% Set color, and create a mark which defines thiscolor accordingly,
% so that \makeheadline knows which color to restore.
def\setcolor#1{\xdef\lastcolordefs{\gdef
oexpand\thiscolor{#1}}%\domark\pdfsetcolor{#1}%
}

% k sets the color for filling (usual text, etc.);
% K sets the color for stroking (thin rules, e.g., normal _'s).
def\pdfsetcolor#1{\pdfliteral{#1 rg #1 RG}}

% Set color, and create a mark which defines thiscolor accordingly,
% so that \makeheadline knows which color to restore.
def\setcolor#1{\xdef\lastcolordefs{\gdef
oexpand\thiscolor{#1}}%\domark\pdfsetcolor{#1}%
}
without \immediate, ancient pdftex seg faults when the same image is
included twice. (Version 3.14159-pre-1.0-unofficial-20010704.)\n\ifnum\pdftexversion < 14\n  \immediate\pdfimage\n\else\n  \immediate\pdfximage\n\fi\n\ifdim\wd0 >0pt width \pdfimagewidth \fi\n\ifdim\wd2 >0pt height \pdfimageheight \fi\n\ifnum\pdftexversion<13\n  #1.\pdfimgext\n\else\n  {#1.\pdfimgext}%\n\fi\n\ifnum\pdftexversion < 14 \else\n  \pdfrefximage \pdflastximage\n  \fi} \%
\def\pdfmkdest#1{{%\n  We have to set dummies so commands such as @code, and characters\n  such as \, aren't expanded when present in a section title.\n\indexnofonts\n\turnoffactive\n\makevalueexpandable\n\def\pdfdestname[#1]% \n\xiescapepdf\pdfdestname\n\safewhatsit{\pdfdest name{\pdfdestname} xyz}%\n}} \%
\def\pdfmkpgn#1{#1}%
\% by default, use a color that is dark enough to print on paper as
\% nearly black, but still distinguishable for online viewing.\n\urlcolor{rgbDarkRed}\n\linkcolor{rgbDarkRed}\n\endlink{\setcolor{maincolor}\pdfendlink}%
\% Adding outlines to PDF; macros for calculating structure of outlines\n\% come from Petr Olsak\n\def\expnumber#1{\expandafter\ifx\csname#1\endcsname\relax 0%\n  \else \csname#1\endcsname\relaxname \fi}\n\def\advancenumber#1{\tempnum=\expnumber[#1]\relax\n  \advance\tempnum by 1\n  \expandafter\xdef\csname#1\endcsname{\the\tempnum}}\%
\% #1 is the section text, which is what will be displayed in the
\% outline by the pdf viewer. #2 is the pdf expression for the number
% of subentries (or empty, for subsubsections). #3 is the node text,
% which might be empty if this toc entry had no corresponding node.
% #4 is the page number
%
\def\dopdfoutline#1#2#3#4{%
  % Generate a link to the node text if that exists; else, use the
  % page number. We could generate a destination for the section
  % text in the case where a section has no node, but it doesn’t
  % seem worth the trouble, since most documents are normally structured.
  \edef\pdfoutlinedest{#3}%
  \ifx\pdfoutlinedest\empty
  \edef\pdfoutlinedest{#4}%
  \else
  \txiescapepdf\pdfoutlinedest
  \fi
  %
  % Also escape PDF chars in the display string.
  \edef\pdfoutlinetext{#1}%
  \txiescapepdf\pdfoutlinetext
  %
  \pdfoutline goto name{\pdfrmkpgn{\pdfoutlinedest}}#2{\pdfoutlinetext}%
  %
  \def\pdfmakeoutlines{%
  \begingroup
    \% Read toc silently, to get counts of subentries for \pdfoutline.
    \def\partentry##1##2##3##4{}% ignore parts in the outlines
    \def\numchapentry##1##2##3##4{\% number
      \def\thischapnum{##2}%
      \def\thissecnum{0}%
      \def\thissubsecnum{0}%
    }%
    \def\numsecentry##1##2##3##4{\% number
      \advancenumber{chap\thischapnum}
      \def\thissecnum{##2}%
      \def\thissubsecnum{0}%
    }%
    \def\numsubsecentry##1##2##3##4{\% number
      \advancenumber{sec\thissecnum}
      \def\thissubsecnum{##2}%
    }%
    \def\numsubsubsecentry##1##2##3##4{\% number
      \advancenumber{subsec\thissubsecnum}
    }%
    \def\thischapnum{0}%
    \def\thissecnum{0}%
    \def\thissubsecnum{0}%
  \endgroup
\% use \def rather than \let here because we redefine \chapentry et al. a second time, below.
\def\appentry{\numchapentry}\
\def\appsecentry{\numsecentry}\
\def\appsubsecentry{\numsubsecentry}\
\def\appsubsubsecentry{\numsubsubsecentry}\
\def\unnchapentry{\numchapentry}\
\def\unnsecentry{\numsecentry}\
\def\unnsubsecentry{\numsubsecentry}\
\def\unnsubsubsecentry{\numsubsubsecentry}\
\readdatafile{toc}\
\%
\% Read toc second time, this time actually producing the outlines.
\% The `-` means take the \expnumber as the absolute number of
\% subentries, which we calculated on our first read of the .toc above.
\%
\% We use the node names as the destinations.
\def\numchapentry##1##2##3##4{\dopdfoutline{##1}{count-\expnumber{chap##2}}{##3}{##4}}\
\def\numsecentry##1##2##3##4{\dopdfoutline{##1}{count-\expnumber{sec##2}}{##3}{##4}}\
\def\numsubsecentry##1##2##3##4{\dopdfoutline{##1}{count-\expnumber{subsec##2}}{##3}{##4}}\
\def\numsubsubsecentry##1##2##3##4{% count is always zero
\dopdfoutline{##1}{}{##3}{##4}}\
\%
\% PDF outlines are displayed using system fonts, instead of
\% document fonts. Therefore we cannot use special characters,
\% since the encoding is unknown. For example, the eogonek from
\% Latin 2 (0xea) gets translated to a | character. Info from
\%
\% TODO this right, we have to translate 8-bit characters to
\% their "best" equivalent, based on the @documentencoding. Too
\% much work for too little return. Just use the ASCII equivalents
\% we use for the index sort strings.
\%
\indexnofonts
\setupdatafile
\%
\% We can have normal brace characters in the PDF outlines, unlike
\% Texinfo index files. So set that up.
\def\{\lbracecharliteral\%
\def\}\rbracecharliteral\%
\catcode`\=\active \otherbackslash
\input \tocreadfilename
\endgroup
}
\catcode`\[=1 \catcode`]=2

Open Source Used In vEdge 20.1 20.1
\catcode`\{=\other \catcode`\}=\other
\gdef\bracecharliteral[ ]{}
\gdef\brbracecharliteral[]{}
]
\def\skipspaces#1{\def\PP{#1}\def\D{|}\
\ifx\PP\D\let\nextsp\relax
\else\let\nextsp\skipspaces
\addtokens{\filename}{\PP}\
\advance\filenamelength by 1
\fi
\nextsp}
\def\getfilename#1{\filenamelength=0
\% If we don’t expand the argument now, \skipspaces will get
\% snagged on things like ”@value{foo}”.  
\edef\temp{#1}\
\expandafter\skipspaces\temp|\relax}
\ifnum\pdftexversion < 14
\let \startlink \pdfannotlink
\else
\let \startlink \pdfstartlink
\fi
\% make a live url in pdf output.
\def\pdfurl#1{\begingroup
\% it seems we really need yet another set of dummies; have not
\% tried to figure out what each command should do in the context
\% of @url.  for now, just make @/ a no-op, that’s the only one
\% people have actually reported a problem with.
\%
\normalturnoffactive
\def\@{\@}\
\let\/=\empty
\makevalueexpandable
\% do we want to go so far as to use \indexnofonts instead of just
\% special-casing \var here?
\edef\var##1{##1}\
\%
\leavevmode\setcolor{\urlcolor}\
\startlink attr{/Border [0 0 0]}\
user{/Subtype /Link /A << /S /URI /URI (#1) >>}\
\endgroup}
\def\pdfgettoks#1. {\setbox\boxA=\hbox{\toksA={#1.}\toksB=\maketoks}}
\def\addtoks\#1\#2\def\addtoks\\noexpand#1\{\the#1\#2\}\addtoks
\def\adn\#1\{\addtoks\#1\#1\} \edef\adn\#1\{\addtoks\#1\#1\}
\def\poptoks\#1\#2\{\edef\poptoks\#1\#2[ENDTOKS] {\let\first=\#1\toksD=\#1\toksA=\#2} }
\def\maketoks{\expandafter\poptoks\the\toksA|ENDTOKS|relax
\ifx\first0\adn0
\else\ifx\first1\adn1 \else\ifx\first2\adn2 \else\ifx\first3\adn3 \else\ifx\first4\adn4 \else\ifx\first5\adn5 \else\ifx\first6\adn6 \else\ifx\first7\adn7 \else\ifx\first8\adn8 \else\ifx\first9\adn9 \else
\ifnum0=\countA\else\makelink\fi
\ifx\first.\let\next=\done\else
\let\next=\maketoks
\addtokens{\toksB}{\the\toksD}
\ifx\first,\addtokens{\toksB}{\space}\fi
\fi
\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi
\next}
\def\makelink{\addtokens{\toksB}{\noexpand\pdflink{\the\toksC}}\toksC={}\global\countA=0}
\def\pdflink#1{\startlink attr{/Border [0 0 0]} goto name{\pdfmkpgn{#1}}\setcolor{\linkcolor}#1\endlink}
\def\done{\edef\st{\global\noexpand\toksA={\the\toksB}}\st}
\else
% non-pdf mode
\let\pdfmkdest = \gobble
\let\pdfurl = \gobble
\let\endlink = \relax
\let\setcolor = \gobble
\let\pdfsetcolor = \gobble
\let\pdfmakeoutlines = \relax
\fi  % \ifx\pdfoutput
\message{fonts,}
%
% Change the current font style to #1, remembering it in \curfontstyle.
% For now, we do not accumulate font styles: @b{@i{foo}} prints foo in
% italics, not bold italics.
%
\def\setfontstyle#1{\def\curfontstyle{#1}% not as a control sequence, because we are \edef\d.\csname ten#1\endcsname % change the current font }
%
% Select #1 fonts with the current style.
%
\def\selectfonts#1{\csname #1fonts\endcsname \csname\curfontstyle\endcsname}
\def\rm{\fam=0 \setfontstyle{rm}}
\def\itfam{\itfam \setfontstyle{it}} \def\sflam{\sflam \setfontstyle{sl}} \def\bffam{\bffam \setfontstyle{bf}} \def\bfstylename{bf}
\def\ttfam{\ttfam \setfontstyle{tt}}

% Unfortunately, we have to override this for titles and the like, since
% in those cases "rm" is bold. Sigh.
\def\rmisbold{\rm\def\curfontstyle{bf}}

% Texinfo sort of supports the sans serif font style, which plain TeX does not.
% So we set up a \sf.
\newfam\sffam
\def\sf{}{\fam=\sffam \setfontstyle{sf}}
\let\li = \sf % Sometimes we call it \li, not \sf.

% We don’t need math for this font style.
\def\ttsl{}{\setfontstyle{tt\sl}}

% Set the baselineskip to #1, and the lineskip and strut size
% correspondingly. There is no deep meaning behind these magic numbers
% used as factors; they just match (closely enough) what Knuth defined.
% \def\lineskipfactor{.08333}
\def\strutheightpercent{.70833}
\def\strutdepthpercent{.29167}
% can get a sort of poor man’s double spacing by redefining this.
\def\baselinefactor{1}
\newdimen\textleading
\def\setleading#1{%
  \dimen0 = #1\relax
  \normalbaselineskip = \baselinefactor\dimen0
  \normallineskip = \lineskipfactor\normalbaselineskip
  \normalbaselineskip = \lineskipfactor\normalbaselineskip
  \normalbaselineskip = \lineskipfactor\normalbaselineskip
  \setbox\strutbox = \hbox{%
    \vrule width0pt height\strutheightpercent\baselineskip
    depth \strutdepthpercent \baselineskip
  }%
}

% PDF CMaps. See also LaTeX’s t1.cmap.
%
% do nothing with this by default.
\expandafter\let\csname cmapOT1\endcsname\gobble
\expandafter\let\csname cmapOT1\IT\endcsname\gobble
% if we are producing pdf, and we have `pdffontattr`, then define cmaps.
% (`pdffontattr` was introduced many years ago, but people still run
% older pdftex's; it's easy to conditionalize, so we do.)
\ifpdf \ifx\pdffontattr\thisisundefined \else
  \begingroup
  \catcode`\^^M=12 \def\^^M{\^^J}% Output line endings as the ^^J char.
  \catcode`%=12 \immediate\pdfobj stream {%!PS-Adobe-3.0 Resource-CMap
  \%DocumentNeededResources: ProcSet (CIDInit)
  \%IncludeResource: ProcSet (CIDInit)
  \%BeginResource: CMap (TeX-OT1-0)
  \%Title: (TeX-OT1-0 TeX OT1 0)
  \%Version: 1.000
  \%EndComments
  /CIDInit /ProcSet findresource begin
  12 dict begin
  beginmap
  /CIDSystemInfo 
  << /Registry (TeX) 
  /Ordering (OT1) 
  /Supplement 0 
  >> def
  /CMapName /TeX-OT1-0 def
  /CMapType 2 def
  1 begincodespacerange
  <00> <7F>
  endcodespacerange
  8 beginbfrange
  <00> <01> <0393>
  <09> <0A> <03A8>
  <23> <26> <0023>
  <28> <3B> <0028>
  <3F> <5B> <003F>
  <5D> <5E> <005D>
  <61> <7A> <0061>
  <7B> <7C> <2013>
  endbfrange
  40 beginbfchar
  <02> <0398>
  <03> <039B>
  <04> <039E>
  <05> <03A0>
  <06> <03A3>
  <07> <03D2>
  <08> <03A6>
  <0B> <00660066>
  <0C> <00660069>
  <0D> <0066006C>
  endbfchar
  endmap
  end
  end
  \endgroup
\else
  \endgroup
\fi
\fi
Open Source Used In vEdge 20.1 20.1
% Set the font macro #1 to the font named \fontprefix#2.
% #3 is the font's design size, #4 is a scale factor, #5 is the CMap
% encoding (only OT1, OT1IT and OT1TT are allowed, or empty to omit).
% Example:
% #1 = \textrm
% #2 = \rmshape
% #3 = 10
% #4 = \mainmagstep
% #5 = OT1
%
\def\setfont#1#2#3#4#5{% 
\font#1=\fontprefix#2#3 scaled #4
\csname cmap#5\endcsname#1%
}
% This is what gets called when #5 of \setfont is empty.
\let\cmap\gobble
%
% (end of cmaps)
%
% Use cm as the default font prefix.
% To specify the font prefix, you must define \fontprefix
% before you read in texinfo.tex.
%\if\fontprefix\thisisundefined
%\edef\fontprefix{cm}
%\fi
%
% Support font families that don't use the same naming scheme as CM.
\def\rmshape{r}
\def\rmbshape{bx}               % where the normal face is bold
\def\bfshape{b}
\def\bxshape{bx}
\def\ttshape{tt}
\def\ttbshape{tt}
\def\tttslshape{sltt}
\def\itshape{ti}
\def\itbshape{bxti}
\def\slshape{sl}
\def\slbshape{bxsl}
\def\sfshape{ss}
\def\sfbshape{ss}
\def\scshape{csc}
\def\scbshape{csc}

% Definitions for a main text size of 11pt. (The default in Texinfo.)
%
\def\definetextfontsizexi{%
% Text fonts (11.2pt, magstep1).
\def\textnominalsize{11pt}
\edef\mainmagstep{\magstephalf}
\setfont\textrm\rmshape{10}{\mainmagstep}{OT1}
\setfont\texttt\ttshape{10}{\mainmagstep}{OT1TT}
\setfont\textbf\bfshape{10}{\mainmagstep}{OT1}
\setfont\textit\itshape{10}{\mainmagstep}{OT1IT}
\setfont\textsl\slshape{10}{\mainmagstep}{OT1}
\setfont\textsf\sfshape{10}{\mainmagstep}{OT1}
\setfont\textsc\scshape{10}{\mainmagstep}{OT1}
\setfont\textttsl\ttslshape{10}{\mainmagstep}{OT1TT}
\font\texti=cmmi10 scaled \mainmagstep
\font\textsy=cmsy10 scaled \mainmagstep
\def\textecsize{1095}

% A few fonts for @defun names and args.
\setfont\defbf\bfshape{10}{\magstep1}{OT1}
\setfont\deftt\ttshape{10}{\magstep1}{OT1TT}
\setfont\defttsl\ttslshape{10}{\magstep1}{OT1TT}
\def\df{\let\tentt=\deftt \let\tenbf = \defbf \let\tenit=\deftt \let\tensl=\defsl}

% Fonts for indices, footnotes, small examples (9pt).
\def\smallnominalsize{9pt}
\setfont\smallrm\rmshape{9}{1000}{OT1}
\setfont\smalltt\ttshape{9}{1000}{OT1TT}
\setfont\smallbf\bfshape{10}{900}{OT1}
\setfont\smallit\itshape{9}{1000}{OT1IT}
\setfont\smallsl\slshape{9}{1000}{OT1}
\setfont\smallsf\sfshape{9}{1000}{OT1}
\setfont\smallsc\scshape{10}{900}{OT1}
\setfont\smallttsl\ttslshape{10}{900}{OT1TT}
\font\smalli=cmmi9
\font\smallsy=cmsy9
\def\smalliecsize{0900}

% Fonts for small examples (8pt).
% Definitions to make the main text be 10pt Computer Modern, with
% section, chapter, etc., sizes following suit. This is for the GNU
% Press printing of the Emacs 22 manual. Maybe other manuals in the
% future. Used with @smallbook, which sets the leading to 12pt.
% \def\definetextfontsizex{}%
% Text fonts (10pt).
\setfont\secf\sfbshape{12}{\magstep1}{OT1}
\let\secbf\secrm
\setfont\secc\scbshape{10}{\magstep2}{OT1}
\font\seci=cmmi12 scaled \magstep1
\font\secsy=cmsy10 scaled \magstep2
\def\secsize{1440}
\setfont\ssecrm\rmbshape{12}{\magstephalf}{OT1}
\setfont\ssecit\itbshape{10}{1315}{OT1IT}
\setfont\ssecsl\slbshape{10}{1315}{OT1}
\setfont\ssectt\ttbshape{12}{\magstephalf}{OT1TT}
\setfont\ssecttsl\ttslshape{10}{1315}{OT1TT}
\setfont\ssecfr\sfshape{12}{\magstephalf}{OT1}
\let\secbf\secfr
\setfont\secc\scbshape{10}{1315}{OT1}
\font\seci=cmmi12 scaled \magstephalf
\font\secsy=cmsy10 scaled 1315
\def\secsize{1200}
\% Subsection fonts (13.15pt).
\def\sssecnominalsize{13pt}
\setfont\sssecrm\rmbshape{12}{\magstephalf}{OT1}
\setfont\sssecit\itbshape{10}{1315}{OT1IT}
\setfont\sssecsl\slbshape{10}{1315}{OT1}
\setfont\sssectt\ttbshape{12}{\magstephalf}{OT1TT}
\setfont\sssecttsl\ttslshape{10}{1315}{OT1TT}
\setfont\sssecfr\sfshape{12}{\magstephalf}{OT1}
\let\sscbf\sssecfr
\setfont\sssec\scbshape{10}{1315}{OT1}
\font\seci=cmmi12 scaled \magstephalf
\font\secsy=cmsy10 scaled 1315
\def\sssecsize{1200}
\% Reduced fonts for @acro in text (10pt).
\def\reducednominalsize{10pt}
\setfont\reducedrm\rmshape{10}{1000}{OT1}
\setfont\reducedtt\ttshape{10}{1000}{OT1TT}
\setfont\reducedbf\bfshape{10}{1000}{OT1}
\setfont\reducedit\itshape{10}{1000}{OT1IT}
\setfont\reducedsl\slshape{10}{1000}{OT1}
\setfont\reducedsf\sfshape{10}{1000}{OT1}
\font\reducedi=cmmi10
\font\reducedsy=cmsy10
\def\reducedsize{1000}
\textleading = 13.2pt % line spacing for 11pt CM
\textfonts % reset the current fonts
\rm
} % end of 11pt text font size definitions, \definetextfontsizex
\setfont\sectts\ttshape{10}{1000}{OT1TT}
\setfont\sects\sfshape{10}{1000}{OT1}
\let\secbf\secrm
\setfont\secs\scbshape{10}{1000}{OT1}
\font\seci=cmmi10
\font\secsy=cmsy10
\def\seccecsiz{1000}

% Reduced fonts for @acro in text (9pt).
\def\reducednominalsiz{9pt}
\setfont\reducedrm\rmshape{9}{1000}{OT1}
\setfont\reducedtt\ttshape{9}{1000}{OT1TT}
\setfont\reducedbf\bfshape{10}{900}{OT1}
\setfont\reducedit\itshape{9}{1000}{OT1IT}
\setfont\reducedsl\slshape{9}{1000}{OT1}
\setfont\reducedsf\sfshape{9}{1000}{OT1}
\setfont\reducedsc\scshape{10}{900}{OT1}
\setfont\reducedttts\tttsshape{10}{900}{OT1TT}
\font\reducedi=cmmi9
\font\reducedsy=cmsy9
\def\reducedcesiz{0900}

% divide\parskip by 2  % reduce space between paragraphs
\textleading = 12pt   % line spacing for 10pt CM
\textfonts            % reset the current fonts
\rm
} % end of 10pt text font size definitions, \definetextfontsizex

% We provide the user-level command
% \fonttextsize 10
% (or 11) to redefine the text font size. pt is assumed.
% \def\xword{11}
\def\xword{10}
\def\xwordpt{10pt}
%
%\parseargdef\fonttextsize{%
\def\textsizearg{#1}%
%\wlog{doing \fonttextsize \textsizearg}%
% % Set \globaldefs so that documents can use this inside \tex, since
% % makeinfo 4.8 does not support it, but we need it nonetheless.
% % \begingroup \globaldefs=1
\ifx\textsizearg\xword \definetextfontsizex
\else \ifx\textsizearg\xwordpt \definetextfontsizexi
\else

% In order for the font changes to affect most math symbols and letters,
% we have to define the \textfont of the standard families. Since
% texinfo doesn’t allow for producing subscripts and superscripts except
% in the main text, we don’t bother to reset \scriptfont and
% \scriptscriptfont (which would also require loading a lot more fonts).
% \
def\resetmathfonts{%
  \textfont0=\tenrm \textfont1=\teni \textfont2=\tensy
  \textfont\itfam=\tenit \textfont\slfam=\tensl \textfont\bffam=\tenbf
  \textfont\ttfam=\tentt \textfont\sffam=\tensf
}%

% The font-changing commands redefine the meanings of \tenSTYLE, instead
% of just \STYLE. We do this because \STYLE needs to also set the
% current \fam for math mode. Our \STYLE (e.g., \rm) commands hardwire
% \tenSTYLE to set the current font.
%
% Each font-changing command also sets the names \ls (one size lower)
% and \lsl (three sizes lower). These relative commands are used in
% the LaTeX logo and acronyms.
%
% This all needs generalizing, badly.
%
\def\textfonts{%
  \let\tenrm=\textrm \let\tenit=\textit \let\tensl=\textsl
  \let\tenbf=\textbf \let\tentt=\texttt \let\smallcaps=\textsc
  \let\tensf=\textsf \let\teni=\texti \let\tensy=\textsy
  \let\tenttsl=\textttsl
  \def\curfontsize{text}\def\lsize{reduced}\def\lllsize{smaller}%
  \resetmathfonts \setleading{\textleading} }
\def\titlefonts{%
  \let\tenrm=\titlerm \let\tenit=\titleit \let\tensl=\titlesl
  \let\tenbf=\titlebf \let\tentt=\titlett \let\smallcaps=\titlesc
  \let\tensf=\titlesf \let\teni=\titlei \let\tensy=\titlesy
  \let\tenttsl=\titlettsl
  \def\curfontsize{title}\def\lsize{chap}\def\lllsize{subsec}%
  \resetmathfonts \setleading{27pt} }
\def\titlefont#1{{\titlefonts\textisbold #1}}
\def\chapfonts{ %
% Fonts for short table of contents.
\setfont\shortcontrm\rmshape{12}{1000}{OT1}
\setfont\shortcontbf\bfshape{10}{\magstep1}{OT1} % no cmb12
\setfont\shortcontsl\slshape{12}{1000}{OT1}
\setfont\shortconttt\ttshape{12}{1000}{OT1TT}

% Define these just so they can be easily changed for other fonts.
\def\angleleft{$\langle$}
\def\angleright{$\rangle$}

% Set the fonts to use with the @small... environments.
\let\smallexamplefonts = \smallfonts

% About \smallexamplefonts. If we use \smallfonts (9pt), @smallexample
% can fit this many characters:
% 8.5x11=86 smallbook=72 a4=90 a5=69
% If we use \scriptfonts (8pt), then we can fit this many characters:
% 8.5x11=90+ smallbook=80 a4=90+ a5=77
% For me, subjectively, the few extra characters that fit aren't worth
% the additional smallness of 8pt. So I'm making the default 9pt.
%
% By the way, for comparison, here's what fits with @example (10pt):
% 8.5x11=71 smallbook=60 a4=75 a5=58
% --karl, 24jan03.

% Set up the default fonts, so we can use them for creating boxes.
%
\definetextfontsizexi

% Check if we are currently using a typewriter font. Since all the
% Computer Modern typewriter fonts have zero interword stretch (and
% shrink), and it is reasonable to expect all typewriter fonts to have
% this property, we can check that font parameter.
%
\def\ifmonospace{\ifdim\fontdimen3\font=0pt }

% Markup style infrastructure. \defmarkupstylesetup\INITMACRO will
% define and register \INITMACRO to be called on markup style changes.
% \INITMACRO can check \currentmarkupstyle for the innermost
% style and the set of \ifmarkupSTYLE switches for all styles
% currently in effect.
\newif\ifmarkupvar
\newif\ifmarkupsamp
\newif\ifmarkupkey
% Allow an option to not use regular directed right quote/apostrophe
% (char 0x27), but instead the undirected quote from cmtt (char 0x0d).
% The undirected quote is ugly, so don’t make it the default, but it
% works for pasting with more pdf viewers (at least evince), the
% lilypond developers report. xpdf does work with the regular 0x27.
%
def\codequoteright{%
\expandafter\ifx\csname SETtxicodequoteundirected\endcsname\relax
\expandafter\ifx\csname SETcodequoteundirected\endcsname\relax
  \\
\else \char'15 \fi
\else \char'15 \fi
}
%
% and a similar option for the left quote char vs. a grave accent.
% Modern fonts display ASCII 0x60 as a grave accent, so some people like
% the code environments to do likewise.
%
def\codequoteleft{%
\expandafter\ifx\csname SETtxicodequotebacktick\endcsname\relax
\expandafter\ifx\csname SETcodequotebacktick\endcsname\relax
  \\
\else \char'15 \fi
\else \char'15 \fi
}
%
% Knuth pp. 380,381,391
% \relax disables Spanish ligatures ‘ and ! of \tt font.
% \relax `%
\else \char'22 \fi
\else \char'22 \fi
}
% Commands to set the quote options.
%
\parseargdef\codequoteundirected[ %
\def\temp(#1) %
\ifx\temp\onword
\expandafter\let\csname SETtxicodequoteundirected\endcsname = t %
\else\ifx\temp\offword
\expandafter\let\csname SETtxicodequoteundirected\endcsname = \relax
\else
\errhelp = \EMsimple
\errmessage{Unknown @codequoteundirected value \textbackslash \temp', must be on|off}%
\fi\fi
}
%
\parseargdef\codequotebacktick[ %
\def\temp(#1) %
\ifx\temp\onword
\expandafter\let\csname SETtxicodequotebacktick\endcsname = t %
\else\ifx\temp\offword
\expandafter\let\csname SETtxicodequotebacktick\endcsname = \relax
\else
\errhelp = \EMsimple
\errmessage{Unknown @codequotebacktick value \textbackslash \temp', must be on|off}%
\fi\fi
}

% [Knuth] pp. 380,381,391, disable Spanish ligatures ‘‘ and ‘!’ of \tt font.
\def\noligaturesquotelatin[\relax\lq]
%
% Count depth in font-changes, for error checks
\newcount\fontdepth \fontdepth=0
%
% Font commands.

% #1 is the font command (\sl or \it), #2 is the text to slant.
% If we are in a monospaced environment, however, 1) always use \tt\sl,
% and 2) do not add an italic correction.
\def\dosmartslant#1#2{ %
\ifusingtt
{{\ttsl #2}\let\next=\relax}%
{\def\next {{#1#2}\futurelet\next\smartitaliccorrection}} %
\next }
\def\smartslanted{\dosmartslant\sl}
\def\smartitalic{\dosmartslant\it}

% Output an italic correction unless \next (presumed to be the following
% character) is such as not to need one.
\def\smartitaliccorrection{%
  \ifx\next,%
  \else\ifx\next-%
  \else\ifx\next.%
  \else\ptexslash
  \fi\fi\fi
  \aftersmartic
}

% Unconditional use \ttsl, and no ic.  \var is set to this for defuns.
\def\ttslanted#1{{\ttsl #1}}

% @cite is like \smartslanted except unconditionally use \sl.  We never want
% ttsl for book titles, do we?
\def\cite#1{{\sl #1}\futurelet\next\smartitaliccorrection}

\def\aftersmartic{}
\def\var#1{%
  \let\saveaftersmartic = \aftersmartic
  \def\aftersmartic{\null\let\aftersmartic=\saveaftersmartic}%
  \smartslanted{#1}%
}
\let\i=\smartitalic
\let\slanted=\smartslanted
\let\dfn=\smartslanted
\let\emph=\smartslanted

% Explicit font changes: \r, \sc, undocumented \ii.
\def\r#1{{\rm #1}}              % roman font
\def\sc#1{{\smallcaps#1}}       % smallcaps font
\def\ii#1{{\it #1}}             % italic font

% @b, explicit bold.  Also @strong.
\def\b#1{{\bf #1}}
\let\strong=\b

% @sansserif, explicit sans.
\def\sansserif#1{\sf #1}

% We can't just use \exhyphenpenalty, because that only has effect at
% the end of a paragraph.  Restore normal hyphenation at the end of the
% group within which \nohyphenation is presumably called.
\def\nohyphenation{\hyphenchar\font = -1 \aftergroup\restorehyphenation}
\def\restorehyphenation{\hyphenchar\font = `- }

% Set sfcode to normal for the chars that usually have another value.
% Can't use plain's \frenchspacing because it uses the `\x notation, and
% sometimes \x has an active definition that messes things up.
%
\catcode`@=11
\def\plainfrenchspacing{\%
  \sfcode\dotChar =@m \sfcode\questChar=@m \sfcode\exclamChar=@m
  \sfcode\colonChar=@m \sfcode\semiChar =@m \sfcode\commaChar =@m
  \def\endofsentencespacefactor{1000}\% for @. and friends
}\def\plainnonfrenchspacing{\%
  \sfcode\.3000\sfcode\?3000\sfcode\!3000\sfcode\:\2000\sfcode\;1500\sfcode\,1250
  \def\endofsentencespacefactor{3000}\% for @. and friends
}\catcode`@=\other
\def\endofsentencespacefactor{3000}\% default
%
% @t, explicit typewriter.
\def\t#1{\%
  \rawbackslash \plainfrenchspacing #1\%
}\null
%
% @samp.
\def\samp#1{{\setupmarkupstyle{samp}\lq\tclose{#1}\rq\null}}
%
% @indicateurl is \samp, that is, with quotes.
\let\indicateurl=\samp
%
% @code (and similar) prints in typewriter, but with spaces the same
% size as normal in the surrounding text, without hyphenation, etc.
% This is a subroutine for that.
\def\tclose#1{\%
  \%
  Change normal interword space to be same as for the current font.
  \spaceskip = \fontdimen2\font
  \%
  Switch to typewriter.
  \tt
  \%
  But `\ ' produces the large typewriter interword space.
  \def\ {\{\spaceskip = 0pt\ }\}}
%
% Turn off hyphenation.
\nohyphenation
%
\rawbackslash
\plainfrenchspacing
#1%
}%
\null % reset spacefactor to 1000
%
% We *must* turn on hyphenation at \'-\' and \'_' in @code.
% Otherwise, it is too hard to avoid overfull hboxes
% in the Emacs manual, the Library manual, etc.
%
% Unfortunately, TeX uses one parameter (\hyphenchar) to control
% both hyphenation at - and hyphenation within words.
% We must therefore turn them both off (\tclose does that)
% and arrange explicitly to hyphenate at a dash.
% -- rms.
{
\catcode`\-=\active \catcode`\_\=\active
\catcode`\\=\active \catcode`\$\=\active
\global\let\rq\global\let\lq % default definitions
%
\global\def\code{\begingroup
\setupmarkupstyle{code}%
% The following should really be moved into \setupmarkupstyle handlers.
\catcode\dashChar=\active \catcode\underChar=\active
\ifallowcodebreaks
\let-\codedash
\let\_\codeunder
\else
\let-\normaldash
\let\_\realunder
\fi
\codex
%
\def\codex #1{\tclose{#1}\endgroup}
%
\def\codex #1{\tclose{#1}\endgroup}

\def\normaldash{-}
\def\codedash{-\discretionary{}{}{}}
\def\codeunder{%
% this is all so @math{\@code{\var_name}+1} can work. In math mode, _
% is "active" (mathcode"8000) and \normalunderscore (or \char95, etc.)
% will therefore expand the active definition of _, which is us
% (inside @code that is), therefore an endless loop.
\fusingtt{\ifmmode\mathchar"075F\ else\normalunderscore\fi\discretionary{}{}{}}\%
% An additional complication: the above will allow breaks after, e.g.,
% each of the four underscores in __typeof__. This is bad.
% @allowcodebreaks provides a document-level way to turn breaking at -
% and _ on and off.
% \newif\ifallowcodebreaks \allowcodebreakstrue

\def\keywordtrue{true}
\def\keywordfalse{false}

\parseargdef\allowcodebreaks\%
  \def\txiarg{#1}%
  \ifx\txiarg\keywordtrue
    \allowcodebreakstrue
  \else\ifx\txiarg\keywordfalse
    \allowcodebreaksfalse
  \else
    \errhelp = \EMsimple
    \errmessage{Unknown \allowcodebreaks option `\txiarg', must be true|false}%
    \fi\fi
\}

% For \@command, @env, @file, @option quotes seem unnecessary,
% so use \code rather than \samp.
\let\command=\code
\let\env=\code
\let\file=\code
\let\option=\code

% @uref (abbreviation for `urlref') takes an optional (comma-separated)
% second argument specifying the text to display and an optional third
% arg as text to display instead of (rather than in addition to) the url
% itself. First (mandatory) arg is the url.
% (This \urefnobreak definition isn't used now, leaving it for a while
% for comparison.)
\def\urefnobreak#1\{
dourefnobreak #1,,\finish\}
\def\dourefnobreak#1,#2,#3,#4\finish{\begingroup
  \unsepspaces
  \pdfurl{#1}%
  \setbox0 = \hbox{#3}%
  \ifdim\wd0 > 0pt
\refcatcodes
%
\global\def\urefcode{\begingroup
\setupmarkupstyle{code}%
\urefcatcodes
\let&\urefcodeamp
\let.\urefcodedot
\let#\urefcodehash
\let?\urefcodequest
\let/\urefcodeslash
\codex
}
%
% By default, they are just regular characters.
\global\def&{\normalamp}
\global\def.\normaldot
\global\def#\normalhash
\global\def?\normalquest
\global\def/\normalslash
}
%
% we put a little stretch before and after the breakable chars, to help
% line breaking of long url's. The unequal skips make look better in
% cmtt at least, especially for dots.
\def\urefprestretch{\urefprebreak \hskip0pt plus.13em }
\def\urefpoststretch{\urefpostbreak \hskip0pt plus.1em }
%
\def\urefcodeamp{\urefprestretch &\urefpoststretch}
\def\urefcodedot{\urefprestretch .\urefpoststretch}
\def\urefcodehash{\urefprestretch #\urefpoststretch}
\def\urefcodequest{\urefprestretch ?\urefpoststretch}
\def\urefcodeslash{\futurelet\next\urefcslashfinish}
{
\catcode`\/=active
\global\def\urefcslashfinish{%
  \urefprestretch /\urefpoststretch
% Allow line break only after the final / in a sequence of
% slashes, to avoid line break between the slashes in http://.
  \ifx\next\else \urefpoststretch /i
  }
}
%
% One more complication: by default we'll break after the special
% characters, but some people like to break before the special chars, so
% allow that. Also allow no breaking at all, for manual control.
%
\parseargdef\urefbreakstyle{%
  \def\txiarg{#1}%
}
\ifx\txiarg\wordnone
  \def\urefbreakstyle{\nobreak}\def\urefpostbreak{\nobreak}
\else\ifx\txiarg\wordbefore
  \def\urefprebreak{\allowbreak}\def\urefpostbreak{\nobreak}
\else\ifx\txiarg\wordafter
  \def\urefprebreak{\nobreak}\def\urefpostbreak{\allowbreak}
\else
  \errhelp = \Emsimple
  \errmessage{Unknown \urefbreakstyle setting \`\txiarg'}%
  \fi\fi\fi
% @url synonym for \uref, since that's how everyone uses it.
% \let\url=\uref
%
% rms does not like angle brackets --karl, 17may97.
% So now \email is just like \uref, unless we are pdf.
%
%\def\email#1{\angleleft{\tt #1}\angleright}
\ifpdf
  \def\email#1{\doemail#1,,\finish}
  \def\doemail#1,#2,#3\finish{\begingroup
    \unsepspaces
    \pdfurl{mailto:#1}%
    \setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0>0pt\unhbox0\else\code{#1}\fi
    \endlink
  \endgroup}
\else
  \let\email=\uref
\fi
%
% \kbdinputstyle -- arg is `distinct' (@kbd uses slanted tty font always),
% `example' (@kbd uses ttsl only inside of @example and friends),
% or `code' (@kbd uses normal tty font always).
\parseargdef\kbdinputstyle{%
  \def\txiarg{#1}%
  \ifx\txiarg\worddistinct
    \gdef\kbdfont{\ttsl}\gdef\kbdexamplefont{\ttsl}%
  \else\ifx\txiarg\wordexample
    \gdef\kbdfont{\tt}\gdef\kbdexamplefont{\ttsl}%
  \else\ifx\txiarg\wordcode
    \gdef\kbdfont{\tt}\gdef\kbdexamplefont{\tt}%
  \else\ifx\txiarg\wordnaked
    \gdef\kbdfont{\tt}\gdef\kbdexamplefont{\tt}%
  \else
    \errhelp = \Emsimple
    \errmessage{Unknown \kbdinputstyle setting \`\txiarg'}%
  \fi\fi\fi\fi\fi
}
% Default is `distinct'.
\kbdinputstyle distinct

% @kbd is like @code, except that if the argument is just one @key command, % then @kbd has no effect.
\def\kbd#1{{\def\look{#1}\expandafter\kbdsub\look??\par}}

\def\xkey{\key}
\def\kbdsub#1#2#3\par{% 
\def\one{#1}\def\three{#3}\def\threex{??}% 
\ifx\one\xkey\ifx\threex\three \key{#2}\else{\tclose{\kbdfont\setupmarkupstyle{kbd}\look}}\fi \else{\tclose{\kbdfont\setupmarkupstyle{kbd}\look}}\fi%
}

% definition of @key that produces a lozenge. Doesn't adjust to text size.  
%\setfont\keyrm\rmshape{8}{1000}{OT1} 
%\font\keysy=cmsy9 
%\def\key#1{{\setupmarkupstyle{key}\nohyphenation\ifmonospace\else\tt\fi #1}\null}}

% definition of @key with no lozenge. If the current font is already % monospace, don't change it; that way, we respect @kbdinputstyle. But % if it isn't monospace, then use `ltt.  
%\def\key#1{{\setupmarkupstyle{key}\nohyphenation\ifmonospace\else\tt\fi #1}\null}}

% @clicksequence{File @click{} Open ...} 
\def\clicksequence#1{\begingroup#1\endgroup}

% @clickstyle @arrow (by default)
% Typeset a dimension, e.g., `in' or `pt'. The only reason for the
% argument is to make the input look right: @dmn{pt} instead of @dmn{ }pt.
% \def\dmn#1{\thinspace #1}

% @l was never documented to mean `\switch to the Lisp font'*,
% and it is not used as such in any manual I can find. We need it for
% Polish suppressed-l. --karl, 22sep96.
% \def\l#1{{\li #1}\null}

% @acronym for "FBI", "NATO", and the like.
% We print this one point size smaller, since it's intended for
% all-uppercase.
% \def\acronym#1{\doacronym #1,,,\finish}
\def\doacronym#1,#2,#3\finish{\selectfonts\lsize #1\def\temp{#2}\ifx\temp\empty \else
\space ({\unsepspaces \ignorespaces \temp \unskip})\fi\null % reset \spacefactor=1000}

% @abbr for "Comput. J." and the like.
% No font change, but don't do end-of-sentence spacing.
% \def\abbr#1{\doabbr #1,,,\finish}
\def\doabbr#1,#2,#3\finish{\plainfrenchspacing #1\def\temp{#2}\ifx\temp\empty \else
\space ({\unsepspaces \ignorespaces \temp \unskip})\fi\null % reset \spacefactor=1000}

% @asis just yields its argument. Used with @table, for example.
% \def\asis#1{#1}

% @math outputs its argument in math mode.
% % One complication: _ usually means subscripts, but it could also mean
% % an actual _ character, as in @math[@var{some_variable} + 1]. So make
% \_ active, and distinguish by seeing if the current family is \slfam, 
% which is what @var uses.
{
\catcode\_ = \active
\gdef\mathunderscore{
\catcode\_ = \active
\def_{\ifnum\fam=\slfam \_\else\sb\fi}%
}
%
% Another complication: we want \ (and @\) to output a math (or tt) \.
% FYI, plain.tex uses \ as a temporary control sequence (for no 
% particular reason), but this is not advertised and we don't care.
%
% The \mathchar is class=0=ordinary, family=7=ttfam, position=5C=\.
\def\mathbackslash{\ifnum\fam=\ttfam \mathchar"075C \else/\backslash \fi}
%
\def\math{
\tex
\mathunderscore
\let\= \mathbackslash
\mathactive
% make the texinfo accent commands work in math mode
\let^=\ptexhat
\let<=\ptexless
\let"=\ddot
\let\'=\acute
\let\-=\bar
\let^=\hat
\let\-=\grave
\let\-=\breve
\let\-=\check
\let\-=\tilde
\let\dotaccent=\dot
$\finishmath$
}
\def\finishmath#1{#1$\endgroup}$ % Close the group opened by \tex.
%
% Some active characters (such as <) are spaced differently in math. 
% We have to reset their definitions in case the @math was an argument 
% to a command which sets the catcodes (such as @item or @section). 
%
{
\catcode^ = \active
\catcode< = \active
\catcode> = \active
\catcode+ = \active
\catcode" = \active
\gdef\mathactive{%
\let^= \ptexhat
\let< = \ptexless
}
\let\texgt = \ptexgt
\let\texplus = \ptexplus
\let\texquote = \ptexquoteright

% ctrl is no longer a Texinfo command, but leave this definition for fun.
\def\ctrl#1{{\tt \rawbackslash \hat}#1}

% @inlinefmt{FMTNAME,PROCESSED-TEXT} and @inlineraw{FMTNAME,RAW-TEXT}.
% Ignore unless FMTNAME == tex; then it is like @itex and @tex,
% except specified as a normal braced arg, so no newlines to worry about.
% @inlinefmt{tex}
\def\outfmtnametex{tex}
\long\def\inlinefmt#1{\doinlinefmt #1,\finish}
\long\def\doinlinefmt#1,#2,\finish{\def\inlinefmtname{#1}\
\if\inlinefmtname\outfmtnametex \ignorespaces #2\fi}

% For raw, must switch into @tex before parsing the argument, to avoid
% setting catcodes prematurely. Doing it this way means that, for
% example, @inlineraw{html, foo{bar} gets a parse error instead of being
% ignored. But this isn't important because if people want a literal
% *right* brace they would have to use a command anyway, so they may as
% well use a command to get a left brace too. We could re-use the
% delimiter character idea from \verb, but it seems like overkill.
% @inlineraw\def\doinlineraw{\tex \doinlineraw}
\long\def\doinlineraw#1,\finish\long\if\inlinerawname\outfmtnametex \ignorespaces #2\fi
\endgroup % close group opened by \tex.

\message{glyphs,}
% and logos.
% @@ prints an @, as does @atchar{}.
\def@@{\char64 }
\let\@atchar = \@

% @ [ ] @!bracechar{} @rbracechar{} all generate brace characters.
% Unless we're in typewriter, use \ecfont because the CM text fonts do
% not have braces, and we don't want to switch into math.
\def\mybrace{\ifmonospace\else\ecfont\fi \char123}
\def\mybrace{{\ifmonospace\else\ecfont\fi \char125}}
\let\{=\mybrace \let\lbracechar=\
\let\}=\myrbrace \let\rbracechar=\
\begingroup
% Definitions to produce \{ and \} commands for indices,
% and @@ and @ for the aux/toc files.
\catcode\{ = \other \catcode\} = \other
\catcode\![ = 1 \catcode\]= 2
\catcode\! = 0 \catcode\= \other
!gdef!bracecmd\[
!*gdef!bracecmd\[
!*gdef!bracecmd[@]
!*gdef!bracecmd[@]
!endgroup
% @comma{} to avoid , parsing problems.
\let\comma = ,

% Accents: @, @dotaccent @ringaccent @ubaraccent @udotaccent
% Others are defined by plain TeX: @` @' @^ @~ @= @u @v @H.
\let\, = \ptexc
\let\dotaccent = \ptexdot
\def\ringaccent#1{{\accent23 #1}}
\let\tieaccent = \ptext
\let\ubaraccent = \ptexb
\let\udotaccent = \d

% Other special characters: @questiondown @exclamdown @ordf @ordm
% Plain TeX defines: @AA @AE @O @OE @L (plus lowercase versions) @ss.
\def\questiondown{?`}
\def\exclamdown{!`}
\def\ordf{\leavevmode\raise1ex\hbox{\selectfonts\lllsize \underbar{a}}}
\def\ordm{\leavevmode\raise1ex\hbox{\selectfonts\lllsize \underbar{o}}}

% Dotless i and dotless j, used for accents.
\def\umacro{i}
\def\jmacro{j}
\def\dotless#1{\ifx#1\imacro \ifmmode\imath \else\ptexi \fi
\else\ifx#1\jmacro \ifmmode\jmath \else\j \fi
\else \errmessage{@dotless can be used only with i or j}\fi
\fi}

% The \TeX{} logo, as in plain, but resetting the spacing so that a
% period following counts as ending a sentence. (Idea found in latex.)
%
\def\TeX{\TeX \spacefactor=1000 }

% @LaTeX{} logo. Not quite the same results as the definition in
% latex.ltx, since we use a different font for the raised A; it's most
% convenient for us to use an explicitly smaller font, rather than using
% the \scriptstyle font (since we don't reset \scriptstyle and
% \scriptscriptstyle).
% 
% \def\LaTeX{%
\L\kern-.36em
{\setbox0=\hbox{T}\
\vbox to \ht0{\hbox{%
\ifx\textnominalsize\xwordpt
% for 10pt running text, \lllsize (8pt) is too small for the A in La\TeX.
% Revert to plain's \scriptsize, which is 7pt.
\count255=\the\fam $\fam\count255$ \scriptstyle A%
}\else
% For 11pt, we can use our \lllsize.
\selectfonts\lllsize A%
% }
\fi
})%
\wss
}}%
\kern-.15em
\TeX
%

% Some math mode symbols.
\def\bullet{$\ptexbullet$}
\def\geq{\ifmmode \ge\else $\ge$\fi}
\def\leq{\ifmmode \le\else $\le$\fi}
\def\minus{\ifmmode -\else $-$\fi}
%
% @\dots{} outputs an ellipsis using the current font.
% We do .5em per period so that it has the same spacing in the cm
% typewriter fonts as three actual period characters; on the other hand,
% in other typewriter fonts three periods are wider than 1.5em. So do
% whichever is larger.
%
% \def\adots{%
\leavevmode
\setbox0=\hbox{...}% get width of three periods
\ifdim\wd0 > 1.5em
\dimen0 = \wd0
\else
\dimen0 = 1.5em
\fi
\hbox to \dimen0{%
\hspace{0pt plus.25fil}
\hspace{0pt plus1fil}
\hspace{0pt plus1fil}
\hspace{0pt plus.5fil}
\}
\}
\}
\}
\}
\}
\enddots{} is an end-of-sentence ellipsis.
\@enddots{}
\def\enddots{\dots\spacefactor=\endofsentencespacefactor}
\}
\@point{}, \@result{}, \@expansion{}, \@print{}, \@equiv{}.
\@point{}
\@arrow{\leavevmode\raise.05ex\hbox to 1em{\hfil$\rightarrow$\hfil}}
\@result{\leavevmode\raise.05ex\hbox to 1em{\hfil$\Rightarrow$\hfil}}
\@expansion{\leavevmode\hbox to 1em{\hfil$\mapsto$\hfil}}
\@print{\leavevmode\lower.1ex\hbox to 1em{\hfil$\dashv$\hfil}}
\@equiv{\leavevmode\hbox to 1em{\hfil$\ptexequiv$\hfil}}
\}
\def\point{$\star$}
\def\error{\lower.7ex\copy\errorbox}
\}
\newbox\errorbox
\}
\tentt \global\dimen0 = 3em}% Width of the box.
\dimen2 = .55pt % Thickness of rules
\}
\setbox0 = \hbox{\kern-.75pt \reducedsf \putworderror\kern-1.5pt}
\}
\setbox\errorbox=\hbox to \dimen0{\hfil
\hspace = \dimen0 \advance\hspace by -5.8pt % Space to left+right.
\}
\advance\hspace by -2\dimen2 % Rules.
\}
\ vbox{\%
\hrule height\dimen2
\}
\ vrule width\dimen2 \kern3pt % Space to left of text.
\}
\topkern2.4pt \box0 \kern2.4pt)% Space above/below.
\}
\kern3pt\vrule width\dimen2)% Space to right.
\}
\hrule height\dimen2)
\}
\error{\leavevmode\lower.7ex\copy\errorbox}
% @pounds{} is a sterling sign, which Knuth put in the CM italic font.
% \def\pounds{{\textit{	ext英镑}}}
%
% @euro{} comes from a separate font, depending on the current style.
% We use the free feym* fonts from the eurosym package by Henrik
% Theiling, which support regular, slanted, bold and bold slanted (and
% "outlined" (blackboard board, sort of) versions, which we don't need).
% It is available from http://www.ctan.org/tex-archive/fonts/eurosym.
%
% Although only regular is the truly official Euro symbol, we ignore
% that. The Euro is designed to be slightly taller than the regular
% font height.
%
% feymr - regular
% feymo - slanted
% feybr - bold
% feybo - bold slanted
%
% There is no good (free) typewriter version, to my knowledge.
% A feymr10 euro is ~7.3pt wide, while a normal cmr10 char is ~5.25pt wide.
% Hmm.
%
% Also doesn't work in math. Do we need to do math with euro symbols?
% Hope not.
%
% \def\euro\{
% \def\eurofont{
% We set the font at each command, rather than predefining it in
% \textfonts and the other font-switching commands, so that
% installations which never need the symbol don't have to have the
% font installed.
%
% There is only one designed size (nominal 10pt), so we always scale
% that to the current nominal size.
%
% By the way, simply using "at 1em" works for cmr10 and the like, but
% does not work for cmbx10 and other extended/shrunken fonts.
%
% \def\eurosize\{
% \ifx\curfontstyle\bfstylename
% bold:
% \font\thiseurofont = \ifusingit{feybo10}{feybr10} at \eurosize
% \else
% regular:
% \fi
% \}
% \def\euro\{
% \def\eurofont\{
% % \textfonts and the other font-switching commands, so that
% % installations which never need the symbol don't have to have the
% % font installed.
% 
% There is only one designed size (nominal 10pt), so we always scale
% that to the current nominal size.
% 
% By the way, simply using "at 1em" works for cmr10 and the like, but
% does not work for cmbx10 and other extended/shrunken fonts.
% 
% \def\eurosize\{
% \ifx\curfontstyle\bfstylename
% bold:
% \font\thiseurofont = \ifusingit{feybo10}{feybr10} at \eurosize
% \else
% regular:
\font\thiseurofont = \feymo10 at \eurosize
\fi
\thiseurofont

% Glyphs from the EC fonts. We don't use \let for the aliases, because
% sometimes we redefine the original macro, and the alias should reflect
% the redefinition.
%
% Use LaTeX names for the Icelandic letters.
\def\DH{\ecfont \char"D0} % Eth
\def\dh{\ecfont \char"F0} % eth
\def\TH{\ecfont \char"DE} % Thorn
\def\th{\ecfont \char"FE} % thorn
%
\def\guillemetleft{\ecfont \char"13}
\def\guillemotleft{\guillemetleft}
\def\guillemetright{\ecfont \char"14}
\def\guillemotright{\guillemetright}
\def\guilsinglleft{\ecfont \char"0E}
\def\guilsinglright{\ecfont \char"0F}
\def\quotedblbase{\ecfont \char"12}
\def\quotesinglbase{\ecfont \char"0D}
%
% This positioning is not perfect (see the ogonek LaTeX package), but
% we have the precomposed glyphs for the most common cases. We put the
% tests to use those glyphs in the single \ogonek macro so we have fewer
% dummy definitions to worry about for index entries, etc.
%
% ogonek is also used with other letters in Lithuanian (IOU), but using
% the precomposed glyphs for those is not so easy since they aren't in
% the same EC font.
\def\ogonek#1{%
  \def\temp{#1}%
  \ifx\temp\macrocharA\Aogonek
  \else\ifx\temp\macrochara\aogonek
  \else\ifx\temp\macrocharE\Eogonek
  \else\ifx\temp\macrochare\eogonek
  \else
    \ecfont \setbox0=\hbox{#1}%
    \ifdim\ht0=1ex\accent"0C #1%
  \else\ooalign{\unhbox0\crcr\hidewidth\char"0C \hidewidth}%
  \fi
  \fi\fi\fi\fi
%}
}
\def\Aogonek{\ecfont \char"81}
\def\macrocharA{A}
\def\aogonek{\ecfont \char"A1}
\def\macrochara{a}
% Use the ec* fonts (cm-super in outline format) for non-CM glyphs.
\-def\ecfont{%
% We can't distinguish serif/sans and italic/slanted, but this
% is used for crude hacks anyway (like adding French and German
% quotes to documents typeset with CM, where we lose kerning), so
% hopefully nobody will notice/care.
\edef\ecsizenominalsize{%
% @textdegree - the normal degrees sign.
% \def\textdegree{$^\circ$}

% Laurent Siebenmann reports \Orb undefined with:
% Textures 1.7.7 (preloaded format=plain 93.10.14) (68K) 16 APR 2004 02:38
% so we'll define it if necessary.
% \def\Orb\thisisundefined
\def\Orb{\mathhexbox20D} \fi
\message{page headings,}
\newskip\titlepagetopglue \titlepagetopglue = 1.5in
\newskip\titlepagebottomglue \titlepagebottomglue = 2pc

% First the title page.  Must do @settitle before @titlepage.
\newif\ifsseenauthor
\newif\ififinishedtitlepage

% Do an implicit @contents or @shortcontents after @end titlepage if the
% user says @setcontentsaftertitlepage or @setshortcontentsaftertitlepage.
%
\newif\ifssetcontentsaftertitlepage
\let\sesetcontentsaftertitlepage = \setcontentsaftertitlepagetrue
\newif\ifssetshortcontentsaftertitlepage
\let\sesetshortcontentsaftertitlepage = \setshortcontentsaftertitlepagetrue

%parseargdef\shorttitlepage{%
\begingroup \hbox{}\vskip 1.5in \chaprm \centerline{#1}\
\endgroup\page\hbox{}\page}

\envdef\titlepage{%
% Open one extra group, as we want to close it in the middle of \titlepage.
\begingroup
  \parindent=0pt \textfonts
  \% Leave some space at the very top of the page.
  \vglue\titlepagetopglue
  \% No rule at page bottom unless we print one at the top with @title.
  \finishedtitlepagetrue
  \%
  \% Most title ```pages``` are actually two pages long, with space
  \% at the top of the second.  We don't want the ragged left on the second.
  \let\oldpage = \page
  \def\page{%
    \ifssetcontentsaftertitlepage\% 
      \iffinishedtitlepage\else
        \finishedtitlepage
      \fi
      \let\page = \oldpage
      \page
      \null
    \}%
It is important to do the page break before ending the group, because the headline and footline are only empty inside the group. If we use the new definition of \page, we always get a blank page after the title page, which we certainly don’t want.

Need this before the \...aftertitlepage checks so that if they are in effect the toc pages will come out with page numbers.

% If they want short, they certainly want long too.

% Settings used for typesetting titles: no hyphenation, no indentation, don’t worry much about spacing, ragged right. This should be used inside a \vbox, and fonts need to be set appropriately first. Because it is always used for titles, nothing else, we call \rmisbold. \par should be specified before the end of the \vbox, since a vbox is a group.

\def\raggedtitlesettings{%
  \rmisbold
  \hyphenpenalty=10000
  \parindent=0pt
}
\tolerance=5000
\ptexraggedright

\let\subtitlerm=\tenrm
\def\subtitlefont{\subtitlerm \normalbaselineskip = 13pt \normalbaselines}

\parseargdef\title{\checkenv\titlepage
\vbox{\titlefonts \raggedtitlesettings #1\par}%
% print a rule at the page bottom also.
\finishedtitlepagefalse
\vskip4pt \hrule height 4pt width \hsize \vskip4pt
}

\parseargdef\subtitle{\checkenv\titlepage
{\subtitlefont \rightline{#1}}%}

% @author should come last, but may come many times.
% It can also be used inside \@quotation.
%
\parseargdef\author{\def\temp{\quotation}
\ifx\thisenv\temp\def\quotationauthor{#1}% printed in \Equotation.
\else\checkenv\titlepage
\ifseenauthor\else \vskip 0pt plus 1filll \seenauthortrue \fi
{\secfonts\rmisbold \leftline{#1}}%\fi
\fi}

% Set up page headings and footings.
\let\thispage=\folio

\newtoks\evenheadline % headline on even pages
\newtoks\oddheadline % headline on odd pages
\newtoks\evenfootline % footline on even pages
\newtoks\oddfootline % footline on odd pages

% Now make TeX use those variables
\headline={\textfonts\rm \foddpageno \the\oddheadline
\def\evenheadingmarks\headingmarks{even}\{heading}\} \\
\def\oddheadingmarks\headingmarks{odd}\{heading}\} \\
\def\evenfootingmarks\headingmarks{even}\{footing}\} \\
\def\oddfootingmarks\headingmarks{odd}\{footing}\} \\
\def\everyheadingmarks#1\{\headingmarks{even}\{heading\}\{#1\}\} \\
\def\everyfootingmarks#1\{\headingmarks{even}\{footing\}\{#1\}\} \\
% #1 = even/odd, #2 = heading/footing, #3 = top/bottom. \\
\def\headingmarks#1#2#3\{\expandafter\let\expandafter\temp\csname get#3headingmarks\endcsname \\
\global\expandafter\let\csname get#1#2marks\endcsname\temp\} \\
\everyheadingmarks bottom \\
\everyfootingmarks bottom \\
% @headings double turns headings on for double-sided printing. \\
% @headings single turns headings on for single-sided printing. \\
% @headings off turns them off. \\
% @headings on same as @headings double, retained for compatibility. \\
% @headings after turns on double-sided headings after this page. \\
% @headings doubleafter turns on double-sided headings after this page. \\
% @headings singleafter turns on single-sided headings after this page. \\
% By default, they are off at the start of a document, \\
% and turned `on' after @end titlepage. \\
\def\headings#1\{\csname HEADINGS#1\endcsname\} \\
\def\headingsoff\{\% non-global headings elimination \\
\evenheadline={\hfil}\evenfootline={\hfil}\% \\
\oddheadline={\hfil}\oddfootline={\hfil}\% \\
\} \\
\def\HEADINGSoff\{\globaldefs=1\headingsoff\} \% global setting \\
\HEADINGSoff \% it's the default \\
% When we turn headings on, set the page number to 1. \\
% For double-sided printing, put current file name in lower left corner, \\
% chapter name on inside top of right hand pages, document \\
% title on inside top of left hand pages, and page numbers on outside top \\
% edge of all pages.
\def\HEADINGSdouble{\%
  \global\pageno=1
  \global\evenfootline=\hfil
  \global\oddfootline=\hfil
  \global\evenheadline={\line{\folio\hfil\thistitle}}
  \global\oddheadline={\line{\thischapter\hfil\folio}}
  \global\let\contentsalignmacro = \chapoddpage
}\let\contentsalignmacro = \chappager

% For single-sided printing, chapter title goes across top left of page,
% page number on top right.
\def\HEADINGSsingle{\%
  \global\pageno=1
  \global\evenfootline=\hfil
  \global\oddfootline=\hfil
  \global\evenheadline={\line{\thischapter\hfil\folio}}
  \global\oddheadline={\line{\thischapter\hfil\folio}}
  \global\let\contentsalignmacro = \chappager
}\def\HEADINGSSon{\HEADINGSdouble}

\def\HEADINGSafter{\let\HEADINGShook=\HEADINGSdoublex}
\let\HEADINGSdoubleafter=\HEADINGSafter
\def\HEADINGSdoublex{\%
  \global\evenfootline=\hfil
  \global\oddfootline=\hfil
  \global\evenheadline={\line{\folio\hfil\thistitle}}
  \global\oddheadline={\line{\thischapter\hfil\folio}}
  \global\let\contentsalignmacro = \chapoddpage
}\def\HEADINGSsingleafter{\let\HEADINGShook=\HEADINGSsinglex}
\def\HEADINGSsinglex{\%
  \global\evenfootline=\hfil
  \global\oddfootline=\hfil
  \global\evenheadline={\line{\thischapter\hfil\folio}}
  \global\oddheadline={\line{\thischapter\hfil\folio}}
  \global\let\contentsalignmacro = \chappager
}\def\HEADINGSsingleafter{\let\HEADINGShook=\HEADINGSsinglex}

% Subroutines used in generating headings
% This produces Day Month Year style of output.
% Only define if not already defined, in case a txi-???.tex file has set
% up a different format (e.g., txi-cs.tex does this).
\ifx\today\thisisundefined
  \def\today{\%
\number\day\space
\usepackage{pdfpages}
\begin{document}

% @settitle line... specifies the title of the document, for headings.
% It generates no output of its own.
\def\settitle{%putwordNoTitle}
\def\settitle{%parsearg {gdef\thistitle}}

% Tables -- @table, @ftable, @vtable, @item(x).
% default indentation of table text
\setlength{\tableindent}{.8in}
% default indentation of @itemize and @enumerate text
\setlength{\itemindent}{.3in}
% margin between end of table item and start of table text.
\setlength{\itemmargin}{.1in}
% used internally for \itemindent minus \itemmargin
\setlength{\itemmax}{\itemindent - \itemmargin}
% Note @table, @ftable, and @vtable define @item, @itemx, etc., with
% these defs.
% They also define \itemindex
% to index the item name in whatever manner is desired (perhaps none).
\ifitemxneedsnegativevskip
\itemxpar{\par\ifitemxneedsnegativevskip\nobreak\vskip-\parskip\nobreak\fi}
\def\internalBitem{\smallbreak \parsearg\itemzzz}
\def\internalBitemx{\itemxpar \parsearg\itemzzz}
\def\itemzzz #1{\begingroup \advance\hsize by -\rightskip \advance\hsize by -\tableindent \setbox0=\hbox{\itemindicate{#1}} \itemindex{#1} \nobreak % This prevents a break before @itemx.
% \ifitemxneedsnegativevskip\nobreak\vskip-\parskip\nobreak\fi%
% If the item text does not fit in the space we have, put it on a line
% by itself, and do not allow a page break either before or after that
\endgroup}

\end{document}
% line. We do not start a paragraph here because then if the next
% command is, e.g., @kindex, the whatsit would get put into the
% horizontal list on a line by itself, resulting in extra blank space.
\ifdim \wd0>\itemmax
  \% Make this a paragraph so we get the \parskip glue and wrapping,
  \% but leave it ragged-right.
  \begingroup
    \advance\leftskip by-\tableindent
    \advance\hsize by\tableindent
    \advance\rightskip by0pt plus1fil\relax
    \leavevmode\unhbox0\par
  \endgroup
  \%
  \% We're going to be starting a paragraph, but we don't want the
  \% \parskip glue -- logically it's part of the @item we just started.
  \nobreak \vskip-\parskip
  \%
  \% Stop a page break at the \parskip glue coming up. However, if
  \% what follows is an environment such as @example, there will be no
  \% \parskip glue; then the negative vskip we just inserted would
  \% cause the example and the item to crash together. So we use this
  \% bizarre value of 10001 as a signal to \aboveenvbreak to insert
  \% \parskip glue after all. Section titles are handled this way also.
  \%
  \penalty 10001
  \endgroup
  \itemxneedsnegativevskipfalse
\else
  \%
  \% The item text fits into the space. Start a paragraph, so that the
  \% following text (if any) will end up on the same line.
  \noindent
  \%
  \% Do this with kerns and \unhbox so that if there is a footnote in
  \% the item text, it can migrate to the main vertical list and
  \% eventually be printed.
  \nobreak \kern-\tableindent
  \dimen0 = \itemmax \advance\dimen0 by \itemmargin \advance\dimen0 by -\wd0
  \unhbox0
  \nobreak \kern\dimen0
  \endgroup
  \itemxneedsnegativevskiptrue
  \fi
\}
\def\item{\errmessage{\@item while not in a list environment} }
\def\itemx{\errmessage{\@itemx while not in a list environment} }

% @table, @ftable, @vtable.
This is the counter used by @enumerate, which is really @itemize

\newcount \itemno

\edef\itemize{% 
\newcount \itemno
\edef\itemize{%
\doitemize
\doitemize#1 {% 
\aboveenvbreak
\itemmax=\itemindent
\advance\itemmax by -\itemmargin
\advance\leftskip by \itemindent
\exdentamount=\itemindent
\parindent=0pt
\parskip=\smallskipamount
\ifdim\parskip=0pt \parskip=2pt \fi
\% Try typesetting the item mark that if the document erroneously says
\% something like @itemize @samp (intending @table), there's an error
\% right away at the @itemize. It's not the best error message in the
\% world, but it's better than leaving it to the @item. This means if
\% the user wants an empty mark, they have to say @w{} not just @w.
\def\itemcontents{#1}%
\setbox0 = \hbox{\itemcontents}%
\% @itemize with no arg is equivalent to @itemize @bullet.
\ifex\itemcontents\empty\def\itemcontents{\bullet}\fi
\% \let\item=\itemizeitem
%
% Definition of @item while inside @itemize and @enumerate.
% 
\def\itemizeitem{% 
\advance\itemno by 1 % for enumerations
\{\let\par=\endgraf \smallbreak\% reasonable place to break
\{%
\% If the document has an @itemize directly after a section title, a
\% \nobreak will be last on the list, \sectionheading will have
\% done a vskip-\parskip. In that case, we don't want to zero
\% \parskip, or the item text will crash with the heading. On the
\% other hand, when there is normal text preceding the item (as there
% usually is), we do want to zero parskip, or there would be too much
% space. In that case, we won’t have a \nobreak before. At least
% that’s the theory.
\ifnum\lastpenalty<10000 \parskip=0in \fi
\noindent
\hbox to 0pt{\hss \itemcontents \kern\itemmargin} %
% \flushcr
% \vadjust{\penalty 1200} % not good to break after first line of item.
\flushcr
%
\ifnum\lastpenalty<10000 \parskip=0in \fi

% \splitoff TOKENS\endmark defines \first to be the first token in
% TOKENS, and \rest to be the remainder.
%
\def\splitoff#1#2\endmark{\def\first{#1}\def\rest{#2}}%

% Allow an optional argument of an uppercase letter, lowercase letter,
% or number, to specify the first label in the enumerated list. No
% argument is the same as `1'.
%
\envparseargdef\enumerate{\enumeratey #1  \endenumeratey}
\def\enumeratey #1 #2\endenumeratey{%
% If we were given no argument, pretend we were given `1'.
\def\thearg{#1}%
\ifx\thearg\empty \def\thearg{1}\fi
%
% Detect if the argument is a single token. If so, it might be a
% letter. Otherwise, the only valid thing it can be is a number.
% (We will always have one token, because of the test we just made.
% This is a good thing, since \splitoff doesn't work given nothing at
% all -- the first parameter is undelimited.)
\expandafter\splitoff\thearg\endmark
\ifx\rest\empty \splitoff\thearg\endmark
% Only one token in the argument. It could still be anything.
% A ``lowercase letter'' is one whose \lccode is nonzero.
% An ``uppercase letter'' is one whose \lccode is both nonzero, and
% not equal to itself.
% Otherwise, we assume it's a number.
%
% We need the \relax at the end of the \ifnum lines to stop TeX from
% continuing to look for a <number>.

\ifnum\lccode\expandafter`\thearg=0\relax
% numericenumerate % a number (we hope)
\else
% It's a letter.
\ifnum\lccode\expandafter`\thearg=\expandafter`\thearg\relax
% lowercaseenumerate % lowercase letter
\else
\uppercaseenumerate \% uppercase letter
\fi
\fi
\else
% Multiple tokens in the argument.  We hope it's a number.
\numericenumerate
\fi
}

% An \enumerate whose labels are integers.  The starting integer is
% given in \thearg.
%
\def\numericenumerate{%
\itemno = \thearg
\startenumeration{\the\itemno}%
}

% The starting (lowercase) letter is in \thearg.
\def\lowercaseenumerate{%
\itemno = \expandafter`\thearg
\startenumeration{%
% Be sure we're not beyond the end of the alphabet.
\ifnum\itemno=0
\errmessage{No more lowercase letters in @enumerate; get a bigger alphabet}%
\fi
\char\lccode\itemno
}%
}

% The starting (uppercase) letter is in \thearg.
\def\uppercaseenumerate{%
\itemno = \expandafter`\thearg
\startenumeration{%
% Be sure we're not beyond the end of the alphabet.
\ifnum\itemno=0
\errmessage{No more uppercase letters in @enumerate; get a bigger alphabet}
\fi
\char\uccode\itemno
}%
}

% Call \doitemize, adding a period to the first argument and supplying the
% common last two arguments.  Also subtract one from the initial value in
% \itemno, since @item increments \itemno.
%
\def\startenumeration#1{%
  \advance\itemno by -1
  \doitemize{#1.}\flushcr
}\enditemize
%
% @alphaenumerate and @capsenumerate are abbreviations for giving an arg
% to @enumerate.
%
\def\alphaenumerate{\enumerate{a}}
\def\capsenumerate{\enumerate{A}}
\def\Ealphaenumerate{\Eenumerate}
\def\Ecapsenumerate{\Eenumerate}
%
% @multitable macros
% Amy Hendrickson, 8/18/94, 3/6/96
%
% @multitable ... @end multitable will make as many columns as desired.
% Contents of each column will wrap at width given in preamble. Width
% can be specified either with sample text given in a template line,
% or in percent of \hsize, the current width of text on page.
%
% Table can continue over pages but will only break between lines.
%
% To make preamble:
%
% Either define widths of columns in terms of percent of \hsize:
% @multitable @columnfractions .25 .3 .45
% @item ...
%
% Numbers following @columnfractions are the percent of the total
% current hsize to be used for each column. You may use as many
% columns as desired.
%
% Or use a template:
% @multitable {Column 1 template} {Column 2 template} {Column 3 template}
% @item ...
% using the widest term desired in each column.
%
% Each new table line starts with @item, each subsequent new column
% starts with @tab. Empty columns may be produced by supplying @tab's
% with nothing between them for as many times as empty columns are needed,
% ie, @tab@tab@tab will produce two empty columns.
%
% @item, @tab do not need to be on their own lines, but it will not hurt
% if they are.
% Sample multitable:

%   @multitable {Column 1 template} {Column 2 template} {Column 3 template}
%   @item first col stuff @tab second col stuff @tab third col
%   @item
%   first col stuff
%   @tab
%   second col stuff
%   @tab
%   third col
%   @item first col stuff @tab second col stuff
%   @tab Many paragraphs of text may be used in any column.
%   @item This will be in third column.
%   @end multitable

% Default dimensions may be reset by user.
%   @multitableparskip is vertical space between paragraphs in table.
%   @multitableparindent is paragraph indent in table.
%   @multitablecolmargin is horizontal space to be left between columns.
%   @multitablelinespace is space to leave between table items, baseline
to baseline.
%   0pt means it depends on current normal line spacing.
%
\newskip\multitableparskip
\newskip\multitableparindent
\newdimen\multitablecolspace
\newskip\multitablelinespace
\multitableparskip=0pt
\multitableparindent=6pt
\multitablecolspace=12pt
\multitablelinespace=0pt

% Macros used to set up halign preamble:
% \let\endsetuptable\relax
\def\xendsetuptable{\endsetuptable}
\let\columnfractions\relax
\def\xcolumnfractions{\columnfractions}
\newif\ifisetpercent

% #1 is the @columnfraction, usually a decimal number like .5, but might
% be just 1. We just use it, whatever it is.
% \def\pickupwholefraction#1 {%
\global\advance\colcount by 1
\expandafter\xdef\csname col\the\colcount\endcsname{#1\hsize}%
\setuptable
}
\newcount\colcount
\def\setuptable#1{\%
\def\firstarg{#1}\%
\ifx\firstarg\xendsetuptable
\let\go=\relax
\else
\ifx\firstarg\xcolumnfractions
\global\setpercenttrue
\else
\ifsetpercent
\let\go\pickupwholefraction
\else
\global\advance\colcount by 1
\setbox0=\hbox{#1\unskip\space}% Add a normal word space as a
% separator; typically that is always in the input, anyway.
\expandafter\xdef\csname col\the\colcount\endcsname{\the\wd0}\%
\fi
\fi
\ifx\go\pickupwholefraction
% Put the argument back for the \pickupwholefraction call, so
% we'll always have a period there to be parsed.
\def\go{\pickupwholefraction#1}\%
\else
\let\go=\setuptable
\fi%
\fi
\go
}

% multitable-only commands.
%
% @headitem starts a heading row, which we typeset in bold.
% Assignments have to be global since we are inside the implicit group
% of an alignment entry. \everycr resets \everytab so we don't have to
% undo it ourselves.
\def\headitemfont{\bf}% for people to use in the template row; not changeable
\def\headitem{\%
\checkenv\multitable
\everycr
\global\everytab=\bf% can't use \headitemfont since the parsing differs
\the\everytab % for the first item
}%
%
% A \tab used to include \hskip1sp. But then the space in a template
% line is not enough. That is bad. So let's go back to just `&' until
% we again encounter the problem the lsp was intended to solve.
%--karl, nathan@acm.org, 20apr99.
\def\tab{\checkenv\multitable &\the\everytab} %

% @multitable ... @end multitable definitions:
%\newtoks\everytab % insert after every tab.
%
\envdef\multitable{ %
\vskip\parskip
\startsavinginserts
%
% @item within a multitable starts a normal row.
% We use \def instead of \let so that if one of the multitable entries
% contains an @itemize, we don't choke on the \item (seen as \cr\cr aka
% \endtemplate) expanding \doitemize.
\def\item{\cr\cr}%
%
\tolerance=9500
\hbadness=9500
\setmultitablespacing
\parskip=\multitableparskip
\parindent=\multitableparindent
\overfullrule=0pt
\global\colcount=0
%
\everycr = { %
\noalign{ %
\global\everytab=}\% 
\global\colcount=0 % Reset the column counter.
% Check for saved footnotes, etc.
\checkinserts
% Keeps underfull box messages off when table breaks over pages.
%\filbreak
%
% Maybe so, but it also creates really weird page breaks when the
% table breaks over pages. Wouldn't \vfil be better? Wait until the
% problem manifests itself, so it can be fixed for real --karl.
}%
}%
%
\parsearg\domultitable
}
\def\domultitable#1{%
% To parse everything between @multitable and @item:
\setupetable#1 \endsetuptable
%
% This preamble sets up a generic column definition, which will
% be used as many times as user calls for columns.
% \vtop will set a single line and will also let text wrap and 
% continue for many paragraphs if desired.
\halign\bgroup &% 
\global\advance\colcount by 1
\multistrut
\vtop{% 
% Use the current \colcount to find the correct column width:
\hsize=\expandafter\csname col\the\colcount\endcsname 
% 
% In order to keep entries from bumping into each other
% we will add a \leftskip of \multitablecolspace to all columns after
% the first one.
% 
% If a template has been used, we will add \multitablecolspace
% to the width of each template entry.
% 
% If the user has set preamble in terms of percent of \hsize we will
% use that dimension as the width of the column, and the \leftskip
% will keep entries from bumping into each other. Table will start at
% left margin and final column will justify at right margin.
% 
% Make sure we don't inherit \rightskip from the outer environment.
\rightskip=0pt
\ifnum\colcount=1
% The first column will be indented with the surrounding text.
\advance\hsize by\leftskip
\else
\ifsetpercent \else
% If user has not set preamble in terms of percent of \hsize
% we will advance \hsize by \multitablecolspace.
\advance\hsize by \multitablecolspace
\fi
% In either case we will make \leftskip=\multitablecolspace:
\leftskip=\multitablecolspace
\fi
% Ignoring space at the beginning and end avoids an occasional spurious
% blank line, when TeX decides to break the line at the space before the
% box from the multistrut, so the strut ends up on a line by itself.
% For example:
% @multitable @columnfractions .11 .89
% @item @code{#}
% @tab Legal holiday which is valid in major parts of the whole country.
% Is automatically provided with highlighting sequences respectively
% marking characters.
\noindent\ignorespaces##
\unskip\multistrut
}cr
\def\Emultitable{%
\message{conditionals,}

% @iftex, @ifnotdocbook, @ifnothtml, @ifnotinfo, @ifnotplaintext,
% @ifnotxml always succeed. They currently do nothing; we don't
% attempt to check whether the conditionals are properly nested. But we
% have to remember that they are conditionals, so that @end doesn't
% attempt to close an environment group.
% \
def\makecond#1{ %
  \expandafter\let\csname #1\endcsname = \relax
  \expandafter\let\csname iscond.#1\endcsname = 1
}
\makecond[iftex]
\makecond[ifnotdocbook]
\makecond[ifnothtml]
\makecond[ifnotinfo]
\makecond[ifnotplaintext]
% Ignore @ignore, @ifhtml, @ifinfo, and the like.
% \def\direntry{\doignore{direntry}}
\def\documentdescription{\doignore{documentdescription}}
\def\docbook{\doignore{docbook}}
\def\html{\doignore{html}}
\def\ifdocbook{\doignore{ifdocbook}}
\def\ifhtml{\doignore{ifhtml}}
\def\ifinfo{\doignore{ifinfo}}
\def\ifnottex{\doignore{ifnottex}}
\def\ifplaintext{\doignore{ifplaintext}}
\def\xml{\doignore{xml}}

% Ignore text until a line `@end #1', keeping track of nested conditionals.
% A count to remember the depth of nesting.
\newcount\doignorecount
\def\doignore#1{\begingroup
% Scan in ``verbatim'' mode:
\obeylines
\catcode`@ = \other
\catcode`{ = \other
\catcode`\} = \other
% Make sure that spaces turn into tokens that match what \doignoretext wants.
\spaceisspace
% Count number of #1's that we've seen.
\doignorecount = 0
% Swallow text until we reach the matching `@end #1'.
\dodoignore{#1} %
}\catcode\_=11 % We want to use \_STOP_ which cannot appear in texinfo source.
\obeylines %
% \def\dodoignore#1{%
% #1 contains the command name as a string, e.g., `ifinfo'.
% Define a command to find the next `@end #1'.
\long\def\doinoretext#1^^M@end #1{%
\doignoretextyyy##1^^M@#1\_STOP_}%
%
% And this command to find another #1 command, at the beginning of a
% line. (Otherwise, we would consider a line `@c @ifset', for
% example, to count as an @ifset for nesting.)
\long\def\doignoretextyyy##1^^M@#1##2\_STOP_{\doignoreyyy{##2}\_STOP_}%
%
% And now expand that command.
\doignoretext ^^M%
}
%
}

\def\doignoreyyy#1{%
\def\temp{#1}%
\if\temp\empty% Nothing found.
  \let\next\doignoretextzzz
\else% Found a nested condition, ...
  \advance\doignorecount by 1
  \let\next\doignoretextyyy ... look for another.
\fi
\next #1% the token \_STOP_ is present just after this macro.
}
%
% We have to swallow the remaining `\_STOP_'.
%
\def\doignoretextzzz#1{%
\ifnum\doignorecount = 0% We have just found the outermost @end.
  \let\next\enddoignore
\else% Still inside a nested condition.
  \advance\doignorecount by -1
  \let\next\doignoretext \% Look for the next @end.
\fi
\next
}
%
% Finish off ignored text.
{ \obeylines%
% Ignore anything after the last `@end #1'; this matters in verbatim
% environments, where otherwise the newline after an ignored conditional
% would result in a blank line in the output.
\gdef\enddoignore#1^^M{\endgroup\ignorespaces}%
}
%
% @set VAR sets the variable VAR to an empty value.
% @set VAR REST-OF-LINE sets VAR to the value REST-OF-LINE.
% Since we want to separate VAR from REST-OF-LINE (which might be
% empty), we can't just use \parsearg; we have to insert a space of our
% own to delimit the rest of the line, and then take it out again if we
% didn't need it.
% We rely on the fact that \parsearg sets \catcode`\ =10.
\parsearg\def\set\{"\setyyy#1 \endsetyyy\}
\def\setyyy#1 #2\endsetyyy{%
  \makevalueexpandable
  \def\temp{#2}%
  \edef\next{\gdef\makecsname{SET#1}}%
  \ifx\temp\empty
    \next{}%
  \else
    \setzzz#2\endsetzzz
  \fi
}%
% Remove the trailing space \setxxx inserted.
\def\setzzz#1 \endsetzzz{\next{#1}}%
%
% @clear VAR clears (i.e., unsets) the variable VAR.
\parsearg\def\clear{%
  \makevalueexpandable
  \global\xdef\csname SET#1\endcsname=\relax
}%
%
% @value{foo} gets the text saved in variable foo.
\def\value{\begingroup\makevalueexpandable\valuexxx}
\def\valuexxx#1{\expandablevalue{#1}\endgroup}
{
  \catcode`\- = \active \catcode`\_ = \active
%\gdef\makevalueexpandable{%
  \let\value = \expandablevalue
  \% We don't want these characters active, ...
  \catcode`\- =\other \catcode`\_ =\other
  \% ... but we might end up with active ones in the argument if
  \% we're called from \@code, as \@code{\@value{foo-bar_}}, though.
  \% So \let them to their normal equivalents.
  \let\normaldash \let\normalunderscore
}
% We have this subroutine so that we can handle at least some @value's
% properly in indexes (we call \makevalueexpandable in \indexdummies).
% The command has to be fully expandable (if the variable is set), since
% the result winds up in the index file. This means that if the
% variable's value contains other Texinfo commands, it's almost certain
% it will fail (although perhaps we could fix that with sufficient work
% to do a one-level expansion on the result, instead of complete).
%
\def\expandablevalue#1{%
\expandafter\ifx\csname SET#1\endcsname\relax
  {{[No value for ``#1'']}% 
  \message{Variable `#1', used in @value, is not set.}%
  \else
  \csname SET#1\endcsname
  \fi
}
%
% @ifset VAR ... @end ifset reads the `...' iff VAR has been defined
% with @set.
%
% To get special treatment of `@end ifset,' call \makeond and the redefine.
%
\makecond{ifset}
\def\ifset{\parsearg{\doifset{\let\next=\ifsetfail}}}
\def\doifset#1#2{%
  {% 
  \makevalueexpandable
  \let\next=\empty
  \expandafter\ifx\csname SET#2\endcsname\relax
  #1% If not set, redefine \next.
  \fi
  \expandafter
}
\ifsetfail{\doignore{ifset}}

% @ifclear VAR ... @end executes the `...' iff VAR has never been
% defined with @set, or has been undefined with @clear.
%
% The `\else' inside the `\doifset' parameter is a trick to reuse the
% above code: if the variable is not set, do nothing, if it is set,
% then redefine \next to \ifclearfail.
%
\makecond{ifclear}
\def\ifclear{\parsearg{\doifset{\else \let\next=\ifclearfail}}}
\def\ifclearfail{\doignore{ifclear}}

% @ifcommandisdefined CMD ... @end executes the `...' if CMD (written
% without the @) is in fact defined. We can only feasibly check at the
% TeX level, so something like `mathcode' is going to considered
% defined even though it is not a Texinfo command.
%
\makecond{ifcommanddefined}
\def\ifcommanddefined{\parsearg{\doifcmddefined{\let\next=\ifcmddefinedfail} }}
%
\def\doifcmddefined#1#2{[ %
  \makevalueexpandable
  \let\next=\empty
  \expandafter\ifx\csname #1\endcsname\relax
    #1% If not defined, \let\next as above.
  \fi
  \expandafter
}\next
\def\ifcmddefinedfail{\doignore{ifcommanddefined} }

% @ifcommandnotdefined CMD ... handled similar to @ifclear above.
\makecond{ifcommandnotdefined}
\def\ifcommandnotdefined{\parsearg{\doifcmddefined{\else \let\next=\ifcmdnotdefinedfail})}}
\def\ifcmdnotdefinedfail{\doignore{ifcommandnotdefined} }

% Set the `txicommandconditionals' variable, so documents have a way to
% test if the @ifcommand...defined conditionals are available.
\set txicommandconditionals

% @dircategory CATEGORY  -- specify a category of the dir file
% which this file should belong to. Ignore this in TeX.
\let\dircategory=\comment

% @defininfoenclose.
\let\definfoenclose=\comment

\message{indexing,}
% Index generation facilities

% Define \newwrite to be identical to plain tex's \newwrite
% except not \outer, so it can be used within macros and \if's.
\edef\newwrite{\makecsname{ptexnewwrite}}

% \newindex {foo} defines an index named foo.
% It automatically defines \fooindex such that
% \fooindex ...rest of line... puts an entry in the index foo.
% It also defines \fooindfile to be the number of the output channel for
% the file that accumulates this index. The file's extension is foo.
\def\newindex#1{\% 
\iflinks 
\expandafter\newwrite \csname#1indfile\endcsname
\openout \csname#1indfile\endcsname \jobname.#1 \% Open the file 
\fi 
\expandafter\xdef\csname#1index\endcsname{\% \% Define @#1index
\noexpand\doindex{#1}} 
}

\% @defindex foo == \newindex{foo}
\%
\def\defindex{\parsearg\newindex}

\% Define @defcodeindex, like @defindex except put all entries in @code.
\%
\def\defcodeindex{\parsearg\newcodeindex}

\def\newcodeindex#1{\%
\% 
\iflinks 
\expandafter\newwrite \csname#1indfile\endcsname
\openout \csname#1indfile\endcsname \jobname.#1 \% Open the file 
\fi 
\expandafter\xdef\csname#1index\endcsname{\% \% Define @#1index
\noexpand\docodeindex{#1}} 
}

\% @synindex foo bar makes index foo feed into index bar.
\% Do this instead of @defindex foo if you don't want it as a separate index.
\%
\def\synindex#1 #2 {\dosynindex\doindex{#1}{#2}}
\def\syncodeindex#1 #2 {\dosynindex\docodeindex{#1}{#2}}

\% #1 is \doindex or \docodeindex, #2 the index getting redefined (foo),
\% #3 the target index (bar).
\def\dosynindex#1#2#3{\%
\% Only do \closeout if we haven't already done it, else we'll end up
\% closing the target index.
\expandafter \ifx \csname doesynindex\endcsname \relax
\% The \closeout helps reduce unnecessary open files; the limit on the
\% Acorn RISC OS is a mere 16 files.
\expandafter\closeout\csname#3indfile\endcsname
}
\expandafter\let\csname donesynindex#2\endcsname = 1
\fi
% redefine \fooindfile:
\expandafter\let\expandafter\temp\expandafter=\csname#3\endcsname
\expandafter\let\csname#2\endcsname=\temp
% redefine \fooindex:
\expandafter\def\csname#2\endcsname{\noexpand#1{#3}}%
}

% Define \doindex, the driver for all \fooindex macros.
% Argument #1 is generated by the calling \fooindex macro,
% and it is "foo", the name of the index.

% \doindex just uses \parsearg; it calls \doind for the actual work.
% This is because \doind is more useful to call from other macros.

% There is also \dosubind {index} {topic} {subtopic}
% which makes an entry in a two-level index such as the operation index.

\def\doindex#1{\edef\indexname{#1}\parsearg\singleindexer}
\def\singleindexer #1{\doind{\indexname}{#1}}

% like the previous two, but they put @code around the argument.
\def\docodeindex#1{\edef\indexname{#1}\parsearg\singlecodeindexer}
\def\singlecodeindexer #1{\doind{\indexname}{\code{#1}}}%

% Take care of Texinfo commands that can appear in an index entry.
% Since there are some commands we want to expand, and others we don't,
% we have to laboriously prevent expansion for those that we don't.
%
\def\indexdummies{%
\escapechar = `\     % use backslash in output files.
\def\@@{@@}% change to @@ when we switch to @ as escape char in index files.
\def\ {\realbackslash\space }%
%
% Need these unexpandable (because we define \tt as a dummy)
% definitions when @ or @@ appear in index entry text. Also, more
% complicated, when \text is in effect and \ is a \delimiter again.
% We can't use \bracecmd and \bracecmd because texindex assumes
% braces and backslashes are used only as delimiters. Perhaps we
% should define @lbrace and @rbrace commands a la @comma.
\def\{ {{\tt\char123}}%
\def\} {{\tt\char125}}}%
%
% I don't entirely understand this, but when an index entry is
% generated from a macro call, the \endinput which \scanmacro inserts
% causes processing to be prematurely terminated. This is,
% apparently, because \indexsorttmp is fully expanded, and \endinput
% is an expandable command. The redefinition below makes \endinput
% disappear altogether for that purpose -- although logging shows that
% processing continues to some further point. On the other hand, it
% seems \endinput does not hurt in the printed index arg, since that
% is still getting written without apparent harm.
%
% Sample source (mac-idx3.tex, reported by Graham Percival to
% help-texinfo, 22may06):
% @macro funindex {WORD}
% @findex xyz
% @end macro
% ...
% @funindex commtest
%
% The above is not enough to reproduce the bug, but it gives the flavor.
%
% Sample whatsit resulting:
%.@write3{\entry{xyz}{@folio }{@code {xyz@endinput }}}
%
% So:
% \let\endinput = \empty
%
% Do the redefinitions.
\commondummies
}

% For the aux and toc files, @ is the escape character. So we want to
% redefine everything using @ as the escape character (instead of
% \realbackslash, still used for index files). When everything uses @, %
% this will be simpler.
%
% \def\atdummies{%
% \def\@{@@}%
% \def\ { @ }%
% \let\ = \braceatcmd
% \let\ = \braceatcmd
% %
% % Do the redefinitions.
% \commondummies
% \otherbackslash
}

% Called from \indexdummies and \atdummies.
%
% \def\commondummies{%
% %
% % definedummyword defines \#1 as \string\#1\space, thus effectively
% % preventing its expansion. This is used only for control words,
not control letters, because the \space would be incorrect for
control characters, but is needed to separate the control word
from whatever follows.

For control letters, we have \definedummyletter, which omits the
space.

These can be used both for control words that take an argument and
those that do not. If it is followed by {arg} in the input, then
that will dutifully get written to the index (or wherever).

\def\definedummyword##1{\def##1{\string##1\space}}%
\def\definedummyletter##1{\def##1{\string##1}}%
\let\definedummyaccent\definedummyletter
%
\commondummiesnofonts
%
\definedummyletter\_%
\definedummyletter\-%
%
Non-English letters.
\definedummyword\AA
\definedummyword\AE
\definedummyword\DH
\definedummyword\L
\definedummyword\O
\definedummyword\OE
\definedummyword\TH
\definedummyword\aa
\definedummyword\ae
\definedummyword\dh
\definedummyword\exclamdown
\definedummyword\l
\definedummyword\o
\definedummyword\oe
\definedummyword\ordf
\definedummyword\ordm
\definedummyword\questiondown
\definedummyword\ss
\definedummyword\th
%
Although these internal commands shouldn't show up, sometimes they do.
\definedummyword\bf
\definedummyword\gtr
\definedummyword\hat
\definedummyword\less
\definedummyword\sf
\definedummyword\sl
\definedummyword\tclose
\definedummyword\tt
%
\definedummyword\LaTeX
\definedummyword\TeX
%
% Assorted special characters.
\definedummyword\arrow
\definedummyword\bullet
\definedummyword\comma
\definedummyword\copyright
\definedummyword\registeredsymbol
\definedummyword\dots
\definedummyword\enddots
\definedummyword\entrybreak
\definedummyword\equiv
\definedummyword\error
\definedummyword\euro
\definedummyword\expansion
\definedummyword\geq
\definedummyword\guillemetleft
\definedummyword\guillemetright
\definedummyword\guilsinglleft
\definedummyword\guilsinglright
\definedummyword\lbracechar
\definedummyword\leq
\definedummyword\minus
\definedummyword\ogonek
\definedummyword\pounds
\definedummyword\point
\definedummyword\print
\definedummyword\quotedblbase
\definedummyword\quotedblleft
\definedummyword\quotedblright
\definedummyword\quoteleft
\definedummyword\quoteright
\definedummyword\quotesinglbase
\definedummyword\rbracechar
\definedummyword\result
\definedummyword\textdegree
%
% We want to disable all macros so that they are not expanded by \write.
\macrolist
%
\normalturnoffactive
%
% Handle some cases of @value -- where it does not contain any
% (non-fully-expandable) commands.
\makevalueexpandable
}

% \commondummiesnofonts: common to \commondummies and \indexnofonts.
%
\def\commondummiesnofonts{%
% Control letters and accents.
 \definedummyletter!%
 \definedummyaccent"
 \definedummyaccent'
 \definedummyletter*
 \definedummyaccent,
 \definedummyletter.
 \definedummyletter/
 \definedummyletter:
 \definedummyaccent/=%
 \definedummyletter?%
 \definedummyaccent^%
 \definedummyaccent`
 \definedummyaccent~%
 \definedummywordu
 \definedummywordv
 \definedummywordH
 \definedummyworddotaccent
 \definedummywordogonek
 \definedummywordringaccent
 \definedummywordtieaccent
 \definedummywordubaraccent
 \definedummywordudotaccent
 \definedummyworddotless
%
% Texinfo font commands.
 \definedummywordb
 \definedummywordi
 \definedummywordr
 \definedummywordsansserif
 \definedummywordsc
 \definedummywordslanted
 \definedummywordt
%
% Commands that take arguments.
 \definedummywordabbr
 \definedummywordacronym
 \definedummywordanchor
 \definedummywordcite
 \definedummywordcode
 \definedummywordcommand
 \definedummyworddfn
% \indexnofonts is used when outputting the strings to sort the index
% by, and when constructing control sequence names. It eliminates all
% control sequences and just writes whatever the best ASCII sort string
% would be for a given command (usually its argument).
%
def\indexnofonts{%
  % Accent commands should become @asis.
def\definedummyaccent##1{\let##1\asis}%
  % We can just ignore other control letters.
def\definedummyletter##1{\let##1\empty}%
  % All control words become @asis by default; overrides below.
def\\definedummyword\definedummyaccent
  %
\commondummiesnofonts
  %
  % Don’t no-op \tt, since it isn’t a user-level command
  % and is used in the definitions of the active chars like <, >, |, etc.
  % Likewise with the other plain tex font commands.
def\tt=\asis
  %
def\{\ }
  \def\@{[ @ ]}
  \def\_\{\\normalunderscore\}%
\def\{-\}@- shouldn't affect sorting
%
% Unfortunately, texindex is not prepared to handle braces in the
% content at all. So for index sorting, we map @{ and @} to strings
% starting with |, since that ASCII character is between ASCII { and }.
\def\{|\[a\]%
\def\bracechar{|a}%
\def\}|\[b\]%
\def\bracechar{|b}%
%
% Non-English letters.
\def\AA{AA}%
\def\AE{AE}%
\def\DH{DZZ}%
\def\L{L}%
\def\OE{OE}%
\def\O{O}%
\def\TH{ZZZ}%
\def\aa{aa}%
\def\ae{ae}%
\def\dh{dzz}%
\def\exclamdown{!}%
\def\l{l}%
\def\oe{oe}%
\def\ordf{a}%
\def\ordm{o}%
\def\o{o}%
\def\questiondown{?}%
\def\ss{ss}%
\def\th{zzz}%
%
\def\LaTeX{LaTeX}%
\def\TeX{TeX}%
%
% Assorted special characters.
% (The following {} will end up in the sort string, but that's ok.)
\def\arrow{\rightarrow}%
\def\bullet{bullet}%
\def\comma{,}%
\def\copyright{copyright}%
\def\dots{\ldots}%
\def\enddots{\ldots}%
\def\equiv{==}%
\def\error{error}%
\def\euro{euro}%
\def\expansion{\Rightarrow}%
\def\geq{\geq}%
\def\geq{\geq}
\def\guillemetleft{<<}\
\def\guillemetright{>>}\
\def\guilsinglleft{<}\
\def\guilsinglright{>}\
\def\leq{\leq}\
\def\minus{-}\
\def\point{.}\
\def\pounds{pounds}\
\def\print{-|}\
\def\quotedblbase{"}\
\def\quotedblleft{"}\
\def\quotedblright{"}\
\def\quoteleft{`}\
\def\quoteright{'}\
\def\quotesinglbase{,}\
\def\registeredsymbol{R}\
\def\result{\Rightarrow}\
\def\textdegree{o}\
\%
\expandafter\ifx\csname SETtxiindexlquoteignore\endcsname\relax\else\indexlquoteignore\fi\%
\%
\% We need to get rid of all macros, leaving only the arguments (if present).
\% Of course this is not nearly correct, but it is the best we can do for now.
\% makeinfo does not expand macros in the argument to @deffn, which ends up
\% writing an index entry, and texindex isn't prepared for an index sort entry
\% that starts with \.
\%
\% Since macro invocations are followed by braces, we can just redefine them
\% to take a single TeX argument. The case of a macro invocation that
\% goes to end-of-line is not handled.
\%
\unmacrolist
%
\%
% Undocumented (for FSFS 2nd ed.): @set txiindexlquoteignore makes us
% ignore left quotes in the sort term.
{\catcode\`=\active
\gdef\indexlquoteignore{\let`=\empty}}

\let\indexbackslash=0 % overridden during \printindex.
\let\SETmarginindex=\relax % put index entries in margin (undocumented)?

% Most index entries go through here, but \dosubind is the general case.
% #1 is the index name, #2 is the entry text.
\def\doind#1#2{\dosubind{#1}{#2}{}}

% Workhorse for all \fooindexes.
% #1 is name of index, #2 is stuff to put there, #3 is subentry --
% empty if called from \doind, as we usually are (the main exception
% is with most defuns, which call us directly).
%
\def\dosubind#1#2#3{%
  \iflinks
    % Store the main index entry text (including the third arg).
    \toks0 = \{#2\} %
    % If third arg is present, precede it with a space.
    \def\thirdarg{#3} %
    \ifx\thirdarg\empty \else
      \toks0 = \expandafter{\the\toks0 \space #3}\fi
  \edef\writeto{\csname#1indfile\endcsname}%
  \safewhatsit\dosubindwrite
}\fi
%
% Write the entry in \toks0 to the index file:
%
\def\dosubindwrite{%
  % Put the index entry in the margin if desired.
  \ifx\SETmarginindex\relax\else
    \insert\margin{\hbox{\vrule height8pt depth3pt width0pt \the\toks0}}\fi
  %
  % Remember, we are within a group.
  \indexdummies % Must do this here, since \bf, etc expand at this stage
  \edef\indexbackslash{\indexbackslash} % \indexbackslash isn't defined now
    % so it will be output as is; and it will print as backslash.
%
  % Process the index entry with all font commands turned off, to
  % get the string to sort by.
  \indexnofonts
  \edef\temp{\the\toks0} % need full expansion
  \edef\indexsorttmp{\temp}%
}\%
%
% Set up the complete index entry, with both the sort key and
% the original text, including any font commands. We write
% three arguments to \entry to the .?? file (four in the
% subentry case), texindex reduces to two when writing the .??s
% sorted result.
\edef\temp{\%
\write{\string{\entry{\indexsorttmp}{\noexpand\folio}{\the{\toks0}}}\%}
\temp
%

% Take care of unwanted page breaks/skips around a whatsit:
%
% If a skip is the last thing on the list now, preserve it
% by backing up by \lastskip, doing the \write, then inserting
% the skip again. Otherwise, the whatsit generated by the
% write or \pdfdest will make \lastskip zero. The result is that
% sequences like this:
% @end defun
% @tindex whatever
% @defun ...
% will have extra space inserted, because the \medbreak in the
% start of the @defun won't see the skip inserted by the @end of
% the previous defun.
%
% But don't do any of this if we're not in vertical mode. We
% don't want to do a \vskip and prematurely end a paragraph.
%
% Avoid page breaks due to these extra skips, too.
%
% But wait, there is a catch there:
% We'll have to check whether \lastskip is zero skip. \ifdim is not
% sufficient for this purpose, as it ignores stretch and shrink parts
% of the skip. The only way seems to be to check the textual
% representation of the skip.
%
% The following is almost like \def\zeroskipmacro{0.0pt} except that
% the ``p'' and ``t'' characters have catcode \other, not 11 (letter).
% \edef\zeroskipmacro{\expandafterthe\csname z@skip\endcsname}
%
\newskip\whatsitskip
\newcount\whatsitpenalty
%
% ..., ready, GO:
%
\def\safewhatsit#1{%\ifhmode
% #1
%\else
% \lastskip and \lastpenalty cannot both be nonzero simultaneously.
% \whatsitskip = \lastskip
% \edef\lastskipmacro{\the{\lastskip}}%
% \whatsitpenalty = \lastpenalty
%
% If \lastskip is nonzero, that means the last item was a skip. And since a skip is discardable, that means this -\whatsitskip glue we're inserting is preceded by a non-discardable item, therefore it is not a potential breakpoint, therefore no \nobreak needed.
\if\lastskip\zeroskip\else
  \vskip-\whatsitskip
\fi
%
% If \lastskip was zero, perhaps the last item was a penalty, and perhaps it was >=10000, e.g., a \nobreak. In that case, we want to re-insert the same penalty (values >10000 are used for various signals); since we just inserted a non-discardable item, any following glue (such as a \parskip) would be a breakpoint. For example:
%   @deffn deffn-whatever
%   @vindex index-whatever
%   Description.
% would allow a break between the index-whatever whatsit and the "Description." paragraph.
\ifnum\whatsitpenalty>9999 \penalty\whatsitpenalty \fi
\else
% On the other hand, if we had a nonzero \lastskip, this make-up glue would be preceded by a non-discardable item (the whatsit from the \write), so we must insert a \nobreak.
\nobreak\vskip\whatsitskip
\fi
%
% The index entry written in the file actually looks like
% \entry {sortstring} {page} {topic}
% or
% \entry {sortstring} {page} {topic} {subtopic}
% The \textindex program reads in these files and writes files containing these kinds of lines:
% \initial {c}
% before the first topic whose initial is c
% \entry {topic} {pagelist}
% for a topic that is used without subtopics
% \primary {topic}
% for the beginning of a topic that is used with subtopics
% \secondary {subtopic} {pagelist}
% for each subtopic.
% Define the user-accessible indexing commands
% @findex, @vindex, @kindex, @cindex.

\def\findex {\fnindex}
\def\kindex {\kyindex}
\def\cindex {\cpindex}
\def\vindex {\vrindex}
\def\tindex {\tpindex}
\def\pindex {\pgindex}
\def\cindexsub {\begingroup\obeylines\cindexsub\
\obeylines %
\gdef\cindexsub "#1" #2^^M\endgroup %
\dosubind{cp}{#2}{#1}}}

% Define the macros used in formatting output of the sorted index material.

% @printindex causes a particular index (the ??s file) to get printed.
% It does not print any chapter heading (usually an @unnumbered).
% \parseargdef\printindex{\begingroup
\dodoublebreak\chapheadingskip{10000}\%
%
\smallfonts\rm
\tolerance = 9500
\plainfrenchspacing
\everypar = {}% don't want the \kern\-parindent from indentation suppression.
%
% See if the index file exists and is nonempty.
% Change catcode of @ here so that if the index file contains
% \initial { @ }
% as its first line, TeX doesn't complain about mismatched braces
% (because it thinks @} is a control sequence).
\catcode`@ = 11
\openin 1 \jobname.#1s
\ifeof 1
\ifdim \pdif = 1
\enddoublecolumns gets confused if there is no text in the index,
% and it loses the chapter title and the aux file entries for the
% index. The easiest way to prevent this problem is to make sure
% there is some text.
\putwordIndexNonexistent
\else
%
% If the index file exists but is empty, then \openin leaves \ifeof
% false. We have to make TeX try to read something from the file, so
% it can discover if there is anything in it.
\read 1 to \temp
\ifeof 1
\putwordIndexIsEmpty
\else
\% Index files are almost Texinfo source, but we use \ as the escape
\% character. It would be better to use @, but that's too big a change
\% to make right now.
\def\indexbackslash{\backslashcurfont}%
\catcode`\\ = 0
\escapechar = `\n
\begindoublecolumns
\input \jobname.#1s
\enddoublecolumns
\fi
\fi
\closein 1
\endgroup}

\% These macros are used by the sorted index file itself.
\% Change them to control the appearance of the index.
\def\initial#1{\%
\% Some minor font changes for the special characters.
\let\tentt=\sectt \let\tt=\sectt \let\sf=\sectt
\%
\% Remove any glue we may have, we'll be inserting our own.
\removelastskip
\%
\% We like breaks before the index initials, so insert a bonus.
\nobreak
\vskip 0pt plus 3\baselineskip
\penalty 0
\vskip 0pt plus -3\baselineskip
\%
\% Typeset the initial. Making this add up to a whole number of
\% baselineskips increases the chance of the dots lining up from column
\% to column. It still won't often be perfect, because of the stretch
\% we need before each entry, but it's better.
\%
\% No shrink because it confuses \balancecolumns.
\vskip 1.67\baselineskip plus .5\baselineskip
\leftline{\secbf #1}%
\%
\% Do our best not to break after the initial.
\nobreak
\vskip .33\baselineskip plus .1\baselineskip
}%

\% \entry typesets a paragraph consisting of the text (#1), dot leaders, and
\% then page number (#2) flushed to the right margin. It is used for index
\% and table of contents entries. The paragraph is indented by \leftskip.
A straightforward implementation would start like this:
\def\entry#1#2{...
But this freezes the catcodes in the argument, and can cause problems to
@code, which sets - active. This problem was fixed by a kludge---
``." was active throughout whole index, but this isn't really right.
The right solution is to prevent \entry from swallowing the whole text.

--kasal, 21nov03
\def\entry{%
\begingroup

% Start a new paragraph if necessary, so our assignments below can't
% affect previous text.
\par
% Do not fill out the last line with white space.
\parfillskip = 0in
%
% No extra space above this paragraph.
\parskip = 0in
%
% Do not prefer a separate line ending with a hyphen to fewer lines.
\finalhyphendemerits = 0
%
% \hangindent is only relevant when the entry text and page number
% don't both fit on one line. In that case, bob suggests starting the
% dots pretty far over on the line. Unfortunately, a large
% indentation looks wrong when the entry text itself is broken across
% lines. So we use a small indentation and put up with long leaders.
%
% \hangafter is reset to 1 (which is the value we want) at the start
% of each paragraph, so we need not do anything with that.
\hangindent = 2em
%
% When the entry text needs to be broken, just fill out the first line
% with blank space.
\rightskip = 0pt plus1fil
%
% A bit of stretch before each entry for the benefit of balancing
% columns.
\vskip 0pt plus1pt
%
% When reading the text of entry, convert explicit line breaks
% from @* into spaces. The user might give these in long section
% titles, for instance.
\def*[unskip\space\ignorespaces]{%\def\entrybreak{\hfil\break}}%
% Swallow the left brace of the text (first parameter):
\afterassignment\doentry
\let\temp =
}
\def\entrybreak{\unskip\space\ignorespaces}%
\def\doentry{%
\bgroup % Instead of the swallowed brace.
\noindent
\aftergroup\finishentry
% And now comes the text of the entry.
}
\def\finishentry#1{%
% #1 is the page number.
%
% The following is kludged to not output a line of dots in the index if
% there are no page numbers. The next person who breaks this will be
% cursed by a Unix daemon.
\setbox\boxA = \hbox{#1}%
\ifdim\wd\boxA = 0pt
\ %
\else
%
% If we must, put the page number on a line of its own, and fill out
% this line with blank space. (The \hfil is overwhelmed with the
% fill leaders glue in \indexdotfill if the page number does fit.)
\hfil\penalty50
\null\nobreak\indexdotfill % Have leaders before the page number.
%
% The `\ ' here is removed by the implicit \unskip that TeX does as
% part of (the primitive) \par. Without it, a spurious underfull
% \hbox ensues.
\pdfgettoks#1.%
\the\toksA
\else
\#1%
\fi
\fi
\par
\endgroup
}
%
% Like plain.tex's \dotfill, except uses up at least 1 em.
\def\indexdotfill{\cleaders
\hbox{\mathsurround=0pt \mkern1.5mu.\mkern1.5mu}\hskip 1em plus 1fill}
\def\primary #1{\line{#1\hfil}}
\newskip\secondaryindent \secondaryindent=0.5cm
\def\secondary#1#2{{% 
  \parfillskip=0in
  \parskip=0in
  \hangindent=1in
  \hangafter=1
  \noindent\hskip\secondaryindent\hbox{#1}\indexdotfill
  \ifpdf \pdfgettoks#2.\ the\toksA % The page number ends the paragraph.
  \else
    #2
  \fi
  \par
}}

% Define two-column mode, which we use to typeset indexes.
% Adapted from the TeXbook, page 416, which is to say,
% the manmac.tex format used to print the TeXbook itself.
\catcode`@=11

\newbox\partialpage
\newdimen\doublecolumnhsize
\def\begindoublecolumns{\begingroup % ended by \enddoublecolumns
  % Grab any single-column material above us.
  \output = {%
    % Here is a possibility not foreseen in manmac: if we accumulate a
    % whole lot of material, we might end up calling this \output
    % routine twice in a row (see the doublecol-lose test, which is
    % essentially a couple of indexes with @setchapternewpage off). In
    % that case we just ship out what is in \partialpage with the normal
    % output routine. Generally, \partialpage will be empty when this
    % runs and this will be a no-op. See the indexespread.tex test case.
    \ifvoid\partialpage \else
      \onepageout{\pagecontents{\partialpage}}%
    \fi
    %
    \global\setbox\partialpage = \vbox{%
      % Unvbox the main output page.
      \unvbox\PAGE
      \kern-\topskip \kern\baselineskip
    }%
    }%
  \eject % run that output routine to set \partialpage
  %
  % Use the double-column output routine for subsequent pages.
  \output = {\doublecolumnout}%
% Change the page size parameters. We could do this once outside this
% routine, in each of @smallbook, @afourpaper, and the default 8.5x11
% format, but then we repeat the same computation. Repeating a couple
% of assignments once per index is clearly meaningless for the
% execution time, so we may as well do it in one place.
%
% First we halve the line length, less a little for the gutter between
% the columns. We compute the gutter based on the line length, so it
% changes automatically with the paper format. The magic constant
% below is chosen so that the gutter has the same value (well, +<1pt)
% as it did when we hard-coded it.
%
% We put the result in a separate register, \doublecolumhsize, so we
% can restore it in \pagesofar, after \hsize itself has (potentially)
% been clobbered.
%
\doublecolumhsize = \hsize
  \advance\doublecolumhsize by -.04154\hsize
  \divide\doublecolumhsize by 2
\hsize = \doublecolumhsize
%
% Double the \vsize as well. (We don't need a separate register here,
% since nobody clobbers \vsize.)
\vsize = 2\vsize
%
% The double-column output routine for all double-column pages except
% the last.
%
\def\doublecolumnout{%
  \splittopskip=\topskip \splitmaxdepth=\maxdepth
  \dimen@ = \vsize
  \divide\dimen@ by 2
  \advance\dimen@ by -\ht\partialpage
%
% box0 will be the left-hand column, box2 the right.
% \setbox0=\vsplit255 to\dimen@ \setbox2=\vsplit255 to\dimen@
% \onepageout\pagesofar
% \unvbox255
% \penalty\outputpenalty
%
% Re-output the contents of the output page -- any previous material,
% followed by the two boxes we just split, in box0 and box2.}
% called on to balance too much material, but if it is, this makes
% the output somewhat more palatable.)
\global\output = {\onepageout{\pagecontents\PAGE}}%
}%
}\eject
\endgroup % started in \begindoublecolumns
%
% \pagegoal was set to the doubled \vsize above, since we restarted
% the current page. We're now back to normal single-column
% typesetting, so reset \pagegoal to the normal \vsize (after the
% \endgroup where \vsize got restored).
\pagegoal = \vsize
%
% Called at the end of the double column material.
\def\balancecolumns{%
\setbox0 = \vbox{\unvbox255}% like \box255 but more efficient, see p.120.
\dimen@ = \ht0
\advance\dimen@ by \topskip
\advance\dimen@ by -\baselineskip
\divide\dimen@ by 2 % target to split to
%\debug\message{final 2-column material height=\the\ht0, target=\the\dimen@.}%
\splittopskip = \topskip
% Loop until we get a decent breakpoint.
{%
\vbadness = 10000
\loop
\global\setbox3 = \copy0
\global\setbox1 = \vsplit3 to \dimen@
\ifdim\ht3 > \dimen@
\global\advance\dimen@ by 1pt
\repeat
%\debug\message{split to \the\dimen@, column heights: \the\ht1, \the\ht3.}%
\setbox0=\vbox to\dimen@{\unvbox1}%
\setbox2=\vbox to\dimen@{\unvbox3}%
%
\pagesofar
}%
\catcode`@ = \other

\message{sectioning.,}
% Chapters, sections, etc.

% Let's start with @part.
\outer\parsecargdef\part{\partzzz[#1]}
\def\partzzz#1{%

\chapoddpage
\null
\vskip.3\vsize  % move it down on the page a bit
\begingroup
\noindent \titlefonts\rmisbold #1\par % the text
\let\lastnode=\empty        % no node to associate with
\writetocentry{part}{#1}{#1}{#1}{#1}{#1} % but put it in the toc
\headingsoff              % no headline or footline on the part page
\chapoddpage
\endgroup
}

% \unnumberedno is an oxymoron. But we count the unnumbered
% sections so that we can refer to them unambiguously in the pdf
% outlines by their "section number". We avoid collisions with chapter
% numbers by starting them at 10000. (If a document ever has 10000
% chapters, we're in trouble anyway, I'm sure.)
\newcount\unnumberedno \unnumberedno = 10000
\newcount\chapno
\newcount\secno \secno=0
\newcount\subsecno \subsecno=0
\newcount\subsubsecno \subsubsecno=0

% This counter is funny since it counts through charcodes of letters A, B, ...
\newcount\appendixno \appendixno =`@'

% \def\appendixletter{\charthe\appendixno}
% We do the following ugly conditional instead of the above simple
% construct for the sake of pdftex, which needs the actual
% letter in the expansion, not just typeset.
%
\def\appendixletter{%
  \ifnum\appendixno=A A%
  \else\ifnum\appendixno=B B%
  \else\ifnum\appendixno=C C%
  \else\ifnum\appendixno=D D%
  \else\ifnum\appendixno=E E%
  \else\ifnum\appendixno=F F%
  \else\ifnum\appendixno=G G%
  \else\ifnum\appendixno=H H%
  \else\ifnum\appendixno=I I%
  \else\ifnum\appendixno=J J%
  \else\ifnum\appendixno=K K%
  \else\ifnum\appendixno=L L%
  \else\ifnum\appendixno=M M%
  \else\ifnum\appendixno=N N%
  \else\ifnum\appendixno=O O%
  \else\ifnum\appendixno=P P%
% The \the is necessary, despite appearances, because \appendixletter is % expanded while writing the .toc file. \char\appendixno is not % expandable, thus it is written literally, thus all appendixes come out % with the same letter (or @) in the toc without it.

% Each @chapter defines these (using marks) as the number+name, number % and name of the chapter. Page headings and footings can use % these. @section does likewise.

\def\thischapter{}\def\thischapternum{}\def\thischaptername{}
\def\thissection{}\def\thissectionnum{}\def\thissectionname{}

\newcount\absseclevel % used to calculate proper heading level
\newcount\secbase\secbase=0 % @raisesections/@lowersections modify this count

% @raisesections: treat @section as chapter, @subsection as section, etc.
\def\raisesections{\global\advance\secbase by -1}
\let\up=\raisesections % original BFox name

% @lowersections: treat @chapter as section, @section as subsection, etc.
\def\lowersections{\global\advance\secbase by 1}
\let\down=\lowersections % original BFox name

% we only have subsub.
\chardef\maxseclevel = 3
%
% A numbered section within an unnumbered changes to unnumbered too.
% To achieve this, remember the "biggest" unnum. sec. we are currently in:
\chardef\unnlevel ={\maxseclevel
%
% Trace whether the current chapter is an appendix or not:
% \chapheadtype is "N" or "A", unnumbered chapters are ignored.
\def\chapheadtype{N}

% Choose a heading macro
% #1 is heading type
% #2 is heading level
% #3 is text for heading
\def\genhead#1#2#3{%
% Compute the abs. sec. level:
\absseclevel=#2
\advance\absseclevel by \secbase
% Make sure \absseclevel doesn't fall outside the range:
\ifnum \absseclevel < 0
\absseclevel = 0
\else
\ifnum \absseclevel > 3
\absseclevel = 3
\fi
\fi
% The heading type:
\def\headtype{#1}%
\if \headtype U%
\ifnum \absseclevel < \unnlevel
\chardef\unnlevel = \absseclevel
\fi
\else
% Check for appendix sections:
\ifnum \absseclevel = 0
\edef\chapheadtype{\headtype}%
\else
\if\headtype A\if \chapheadtype N%
\errmessage{@appendix... within a non-appendix chapter}%
\fi\fi
\else
% Check for numbered within unnumbered:
\ifnum \absseclevel > \unnlevel
\def\headtype{U}%
\else
\chardef\unnlevel = 3
\fi
\fi
% Now print the heading:
\if \headtype U%
\ifcase\absseclevel
\unnumberedzzz[#3]%
\or \unnumberedseczzz[#3]%
\or \unnumberedsubseczzz[#3]%
\or \unnumberedsubsubseczzz[#3]%
\fi
\else
  \if\headtype A%
    \ifcase\absseclevel
      \appendixzzz{#3}%
      \or \appendixsectionzzz{#3}%
      \or \appendixsubseczzz{#3}%
      \or \appendixsubsubseczzz{#3}%
    \fi
  \else
    \ifcase\absseclevel
      \chapterzzz{#3}%
      \or \seczzz{#3}%
      \or \numberedsubseczzz{#3}%
      \or \numberedsubsubseczzz{#3}%
    \fi
  \fi
  \fi
\suppressfirstparagraphindent
\}

% an interface:
\def\numhead{\genhead N}
\def\apphead{\genhead A}
\def\unnmhead{\genhead U}

% @chapter, @appendix, @unnumbered.  Increment top-level counter, reset
% all lower-level sectioning counters to zero.
%
% Also set \chaplevelprefix, which we prepend to @float sequence numbers
% (e.g., figures), q.v.  By default (before any chapter), that is empty.
\let\chaplevelprefix = \empty
%
\outer\parseargdef\chapter{\numhead0{#1}} % normally numhead0 calls chapterzzz
\def\chapterzzz#1{%  
  section resetting is \global in case the chapter is in a group, such
  % as an @include file.
  \global\secno=0 \global\subsecno=0 \global\subsubsecno=0  
  \global\advance\chapno by 1
  %
  % Used for \float.
  \def\chaplevelprefix{\the\chapno.}\%  
  \resetallfloatnos
  %
  % \putwordChapter can contain complex things in translations.
  \toks0=\expandafter{\putwordChapter}\%
  \message{\the\toks0 \space \the\chapno}\%
  %
  % Write the actual heading.
\chapmacro{#1}{Ynumbered}{\the\chapno}%
% So @section and the like are numbered underneath this chapter.
\globallet\section = \numberedsec
\globallet\subsection = \numberedsubsec
\globallet\subsubsection = \numberedsubsubsec
}
\outer\parseargdef\appendix\{apphead0[#1]\} % normally calls appendixzzz
% \def\appendixzzz#1{%
\global\secno=0 \global\subsecno=0 \global\subsubsecno=0
\global\advance\appendixno by 1
\gdef\chaplevelprefix{\appendixletter.}%
\resetallfloatnos
%
% \putwordAppendix can contain complex things in translations.
\toks0=\expandafter{\putwordAppendix}%
\message{\the\toks0 \space \appendixletter}%
%
\chapmacro{#1}{Yappendix}{\appendixletter}%
%
\globallet\section = \appendixsec
\globallet\subsection = \appendixsubsec
\globallet\subsubsection = \appendixsubsubsec
}
% normally unnmhead0 calls unnumberedzzz:
\outer\parseargdef\unnumbered\{unnmhead0[#1]\}
\def\unnumberedzzz#1{%
\global\secno=0 \global\subsecno=0 \global\subsubsecno=0
\global\advance\unnumberedno by 1
%
% Since an unnumbered has no number, no prefix for figures.
\globallet\chaplevelprefix = \empty
\resetallfloatnos
%
% This used to be simply \message{#1}, but TeX fully expands the
% argument to \message. Therefore, if #1 contained \-commands, TeX
% expanded them. For example, in `@unnumbered The \cite{Book}', TeX
% expanded \cite (which turns out to cause errors because \cite is meant
% to be executed, not expanded).
%
% Anyway, we don't want the fully-expanded definition of \cite to appear
% as a result of the \message, we just want `@cite' itself. We use
% \the<toks register> to achieve this: TeX expands \the<toks> only once,
% simply yielding the contents of <toks register>. (We also do this for
% the toc entries.)
\toks0 = {#1} \%
\message{(#1)} \%
\chapmacro{#1}{Ynothing}{\the\unnumberedno} \%
\global\let\section = \unnumberedsec
\global\let\subsection = \unnumberedsubsec
\global\let\subsubsection = \unnumberedsubsubsec
\}
%
% @centerchap is like @unnumbered, but the heading is centered.
% Well, we could do the following in a group, but that would break
% an assumption that \chapmacro is called at the outermost level.
% Thus we are safer this way.--kasal, 24feb04
\let\centerparametersmaybe = \centerparameters
\unnmhead0{#1} \%
\let\centerparametersmaybe = \relax
\}
%
% @top is like @unnumbered.
\let\top\unnumbered
%
% Sections.
% \outer\parseargdef\numberedsec{\numhead1{#1}} % normally calls seczzz
% \def\seczzz#1{\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
% \sectionheading{#1}{sec}{Ynumbered}{\the\chapno.\the\secno} \%}
% normally calls appendixsectionzzz:
% \outer\parseargdef\appendixsection{\apphead1{#1}}
% \def\appendixsectionzzz#1{\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
% \sectionheading{#1}{sec}{Yappendix}{\appendixletter.\the\secno} \%
%}
% \let\appendixsec\appendixsection
% normally calls unnumberedseczzz:
% \outer\parseargdef\unnumberedsec{\unnmhead1{#1}}
% \def\unnumberedseczzz#1{\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
% \sectionheading{#1}{sec}{Ynothing}{\the\unnumberedno.\the\secno} \%}
% Subsections.
% These macros control what the section commands do, according
% to what kind of chapter we are in (ordinary, appendix, or unnumbered).
% Define them by default for a numbered chapter.
\let\section = \numberedsec
\let\subsection = \numberedsubsec
\let\subsubsection = \numberedsubsubsec

% Define @majorheading, @heading and @subheading

\def\majorheading{%
  \advance\chapheadingskip by 10pt \chapbreak
  \parsearg\chapheadingzzz
}

\def\chapheading{\chapbreak \parsearg\chapheadingzzz}
\def\chapheadingzzz#1{%\vbox{\chapfonts \raggedtitlesettings #1\par} \nobreak\bigskip \nobreak}

% @heading, @subheading, @subsubheading.
\parseargdef\heading{\sectionheading{#1}{sec}{Yomitfromtoc}{} \suppressfirstparagraphindent}
\parseargdef\subheading{\sectionheading{#1}{subsec}{Yomitfromtoc}{} \suppressfirstparagraphindent}
\parseargdef\subsubheading{\sectionheading{#1}{subsubsec}{Yomitfromtoc}{} \suppressfirstparagraphindent}

% These macros generate a chapter, section, etc. heading only
% (including whitespace, linebreaking, etc. around it),
% given all the information in convenient, parsed form.

% Args are the skip and penalty (usually negative)
\def\dobreak#1#2{\par\ifdim\lastskip<#1\removelastskip\penalty#2\vskip#1\fi}

% Parameter controlling skip before chapter headings (if needed)
\newskip\chapheadingskip

% Define plain chapter starts, and page on/off switching for it.
\def\chapbreak{\dobreak \chapheadingskip {-4000}}
\def\chappager{\par\vfill\supereject}
% Because \domark is called before \chapoddpage, the filler page will
% get the headings for the next chapter, which is wrong. But we don't
% care -- we just disable all headings on the filler page.
\def\chapoddpage{%
\chappager
\def\setchapternewpage #1 {\csname CHAPPAG#1\endcsname}

% Chapter opening.
% #1 is the text, #2 is the section type (Ynumbered, Ynothing, %
% Yappendix, Yomitfromtoc), #3 the chapter number.
% To test against our argument.
\def\Ynothingkeyword{Ynothing}
\def\Yomitfromtockeyword{Yomitfromtoc}
\def\Yappendixkeyword{Yappendix}

\def\chapmacro#1#2#3{%
  % Insert the first mark before the heading break (see notes for \domark).
  \let\prevchapterdefs=\lastchapterdefs
  \let\prevsectiondefs=\lastsectiondefs
  \gdef\lastchapterdefs{\gdef\thissectionname{}\gdef\thissectionnum{}%}
  \gdef\thissection{ }%
%
  %
  \def\emptytype{#2}%
% after \p@chapsepmacro, or the headline will change too soon.
\gdef\lastsection{#1} %
%
% Only insert the separating space if we have a chapter/appendix
% number, and don't print the unnumbered "number".
\ifx\empty\temptype\nothingkeyword
 \setbox0 = \hbox{ }%
 \def\toctype{unnchap} %
\else\ifx\empty\temptype\omitfromtockeyword
 \setbox0 = \hbox{ }% contents like unnumbered, but no toc entry
 \def\toctype{omit} %
\else\ifx\empty\temptype\appendixkeyword
 \setbox0 = \hbox{\putwordAppendix{ } #3\enspace}%
 \def\toctype{app} %
\else
 \setbox0 = \hbox{#3\enspace}%
 \def\toctype{numchap} %
\fi\fi\fi
%
% Write the toc entry for this chapter.  Must come before the
% \donoderef, because we include the current node name in the toc
% entry, and \donoderef resets it to empty.
\writetocentry{\toctype}{#1}{#3} %
%
% For pdftex, we have to write out the node definition (aka, make
% the pdfdest) after any page break, but before the actual text has
% been typeset.  If the destination for the pdf outline is after the
% text, then jumping from the outline may wind up with the text not
% being visible, for instance under high magnification.
\donoderef{#2} %
%
% Typeset the actual heading.
\nobreak % Avoid page breaks at the interline glue.
\vbox{\raggedtitlesettings \hangindent=\wd0 \centerparametersmaybe
 \unhbox0 #1\par}%
\nobreak\bigskip % no page break after a chapter title
\nobreak

% @centerchap -- centered and unnumbered.
\let\centerparametersmaybe = \relax
\def\centerparameters{ %
 \advance\rightskip by 3\rightskip
 \leftskip = \rightskip
 \parfillskip = 0pt
 \parfillskip = 0pt
}
% I don't think this chapter style is supported any more, so I'm not
% updating it with the new noderef stuff. We'll see. --karl, 11aug03.
%
\def\setchapterstyle #1 \{\csname CHAPF#1\endcsname\}
\def\unnchfopen #1{%
  \chapoddpage
  \vbox{\chapfonts \raggedtitlesettings #1\par}%
  \nobreak\bigskip\nobreak
}
\def\chfopen #1#2{\chapoddpage {\chapfonts
  \vbox to 3in{\vfil \hbox to\hsize{\hfil #2} \hbox to\hsize{\hfil #1} \vfil}}\par
  \penalty 5000 %
}
\def\centerchfopen #1{%
  \chapoddpage
  \vbox{\chapfonts \raggedtitlesettings \hfill #1\hfill}%
  \nobreak\bigskip \nobreak
}
\def\CHAPFopen{%
  \global\let\chapmacro=\chfopen
  \global\let\centerchapmacro=\centerchfopen
}

% Section titles. These macros combine the section number parts and
% call the generic \sectionheading to do the printing.
%
\newskip\secheadingskip
\def\secheadingbreak{\dobreak \secheadingskip[-1000]}

% Subsection titles.
\newskip\subsecheadingskip
\def\subsecheadingbreak{\dobreak \subsecheadingskip[-500]}

% Subsubsection titles.
\def\subsubsecheadingskip{\subsecheadingskip}
\def\subsubsecheadingbreak{\subsecheadingbreak}

% Print any size, any type, section title.
%
% #1 is the text, #2 is the section level (sec/subsec/subsubsec), #3 is
% the section type for xrefs (Ynumbered, Ynothing, Yappendix), #4 is the
% section number.
%
\def\seckeyword{sec}
\def\sectionheading#1#2#3#4{%
  \% \checkenv{} % should not be in an environment.
  \%
  \% Switch to the right set of fonts.
  \csname #2fonts\endcsname \rmisbold
  \%
  \def\sectionlevel[#2]{%  
  \def\temptype{#3}{%
  \%
  \% Insert first mark before the heading break (see notes for \domark).
  \let\prevsectiondefs=\lastsectiondefs
  \ifx\temptype\Ynothingkeyword
    \ifx\sectionlevel\seckeyword
      \gdef\lastsectiondefs{\gdef\thissectionname{#1} \gdef\thissectionnum{}%  
      \gdef\thissection{\thissectionname} %
    \fi
    \else\ifx\tempyte\ YM omitfromtockeyword
      \gdef\lastsectiondefs{ }
    \else\ifx\temtype\Yappendixkeyword
      \ifx\sectionlevel\seckeyword
        \toks0={#1}%
        \xdef\lastsectiondefs{%
          \gdef\noexpand\thissectionname{\the\toks0}%
          \gdef\noexpand\thissectionnum{#4}%
          \noexpand\putwordSection avoids expanding indigestible
          \% commands in some of the translations.
          \gdef\noexpand\thissection{\noexpand\putwordSection{ %
            \noexpand\thissectionnum:
            \noexpand\thissectionname}%
        }%
        \fi
        \else
      \fi
    \else
  \fi
  \else
    \ifx\sectionlevel\seckeyword
      \toks0={#1}%
      \xdef\lastsectiondefs{%
        \gdef\noexpand\thissectionname{\the\toks0}%
        \gdef\noexpand\thissectionnum{#4}%
        \noexpand\putwordSection avoids expanding indigestible
        \% commands in some of the translations.
        \gdef\noexpand\thissection{\noexpand\putwordSection{ %
          \noexpand\thissectionnum:
          \noexpand\thissectionname}%
        }%
        \fi
        \fi
    \fi
  \else
    \% Go into vertical mode. Usually we'll already be there, but we
% break, since then the whatsits could end up on page n while the
% section is on page n+1, thus toc/etc. are wrong. Debian bug 276000.
\nobreak
%
% Output the actual section heading.
\vbox{\hyphenpenalty=10000 \tolerance=5000 \parindent=0pt \ptexraggedright
   \hangindent=\wd0 % zero if no section number
   \unhbox0 #1}%
%
% Add extra space after the heading -- half of whatever came above it.
% Don't allow stretch, though.
\kern .5 \csname #2headingskip\endcsname
%
% Do not let the kern be a potential breakpoint, as it would be if it
% was followed by glue.
\nobreak
%
% We'll almost certainly start a paragraph next, so don't let that
% glue accumulate. (Not a breakpoint because it's preceded by a
% discardable item.) However, when a paragraph is not started next
% \startdefun, \cartouche, \center, etc.), this needs to be wiped out
% or the negative glue will cause weirdly wrong output, typically
% obscuring the section heading with something else.
\vskip-\parskip
%
% This is so the last item on the main vertical list is a known
% \penalty > 10000, so \startdefun, etc., can recognize the situation
% and do the needful.
\penalty 10001
}

\message{toc,}
% Table of contents.
\newwrite\tocfile

% Write an entry to the toc file, opening it if necessary.
% Called from @chapter, etc.
%
% Example usage: \writetocentry{sec} \{Section Name\} \{\the\chapno.\the\secno\}
% We append the current node name (if any) and page number as additional
% arguments for the \{chap,sec,...\}entry macros which will eventually
% read this. The node name is used in the pdf outlines as the
% destination to jump to.
%
% We open the .toc file for writing here instead of at @setfilename (or
% any other fixed time) so that @contents can be anywhere in the document.
% But if #1 is `omit', then we don't do anything. This is used for the
% table of contents chapter openings themselves.
% \newif\iftocfileopened
\def\omitkeyword{omit}%
% \def\writetocentry#1#2#3{%
  \edef\writetoctype{#1}%
  \ifx\writetoctype\omitkeyword
    \else
      \iftocfileopened
        \immediate\openout\tocfile = \jobname.toc
        \global\tocfileopenedtrue
      \fi
      \iflinks
        {\atdummies
          \edef\temp{\write\tocfile{@#1entry{#2}{#3}{\lastnode}{\noexpand\folio}}}\temp}
      \fi
    \fi
%    \% Tell \shipout to create a pdf destination on each page, if we're
    \% writing pdf. These are used in the table of contents. We can't
    \% just write one on every page because the title pages are numbered
    \% 1 and 2 (the page numbers aren't printed), and so are the first
    \% two pages of the document. Thus, we'd have two destinations named
    \% `1', and two named `2'.
    \ifpdf \global\pdfmakepagedesttrue \fi
  \}
% \}
% These characters do not print properly in the Computer Modern roman
% fonts, so we must take special care. This is more or less redundant
% with the Texinfo input format setup at the end of this file.
%
\def\activecatcodes{%
  \catcode`\"=active
  \catcode`\$=active
  \catcode`\<=active
  \catcode`\>=active
  \catcode`\\=active
  \catcode`\^=active
  \catcode`\_=active
  \catcode`\|=active
  \catcode`\~=active
}
% Read the toc file, which is essentially Texinfo input.
\def\readtocfile{%
  \setupdatafile
  \activecatcodes
  \input \tocreadfilename
}

\newskip\contentsrightmargin \contentsrightmargin=1in
\newcount\savepageno \lastnegativepageno = -1

% Prepare to read what we've written to \tocfile.
%
\def\startcontents#1{%
  % If @setchapternewpage on, and @headings double, the contents should
  % start on an odd page, unlike chapters. Thus, we maintain
  % \contentsalignmacro in parallel with \pagealignmacro.
  % From: Torbjorn Granlund <tege@matematik.su.se>
  \contentsalignmacro
  \immediate\closeout\tocfile
  %
  % Don't need to put 'Contents' or 'Short Contents' in the headline.
  % It is abundantly clear what they are.
  \chapmacro{#1}{Yomitfromtoc}{}%
  %
  \savepageno = \pageno
  \begingroup                  % Set up to handle contents files properly.
  \raggedbottom              % Worry more about breakpoints than the bottom.
  \advance\hsize by -\contentsrightmargin % Don't use the full line length.
  %
  % Roman numerals for page numbers.
  \ifnum \pageno>0 \global\pageno = \lastnegativepageno \fi
%

% redefined for the two-volume lispref. We always output on
% \jobname.toc even if this is redefined.
%
\def\tocreadfilename{\jobname.toc}

% Normal (long) toc.
%
\def\contents{%
  \startcontents{\putwordTOC}%
  \openin 1 \tocreadfilename
  \ifeof 1 \else
    \readtocfile
  \fi
}
% Typeset the label for a chapter or appendix for the short contents.
% The arg is, e.g., `A' for an appendix, or `3' for a chapter.
%
\def\shortchaplabel#1{% 
% This space should be enough, since a single number is .5em, and the
% widest letter (M) is 1em, at least in the Computer Modern fonts.
% But use \hss just in case.
% (This space doesn't include the extra space that gets added after
% the label; that gets put in by \shortchapentry above.)
%
% We'd like to right-justify chapter numbers, but that looks strange
% with appendix letters. And right-justifying numbers and
% left-justifying letters looks strange when there is less than 10
% chapters. Have to read the whole toc once to know how many chapters
% there are before deciding ...
\hbox to 1em{#1\hss}%
}%

% These macros generate individual entries in the table of contents.
% The first argument is the chapter or section name.
% The last argument is the page number.
% The arguments in between are the chapter number, section number, ...

% Parts, in the main contents. Replace the part number, which doesn't
% exist, with an empty box. Let's hope all the numbers have the same width.
% Also ignore the page number, which is conventionally not printed.
\def\numeralbox{\setbox0=\hbox{8}\hbox to \wd0{\hfil}}
\def\partentry#1#2#3#4{\dochapentry{\numeralbox\labelspace#1}{}{}}

% Parts, in the short toc.
\def\shortpartentry#1#2#3#4{\penalty-300
\vskip.5\baselineskip plus.15\baselineskip minus.1\baselineskip
\shortchapentry{{\bf #1}}{\numeralbox}{}{}}%

% Chapters, in the main contents.
\def\numchapentry#1#2#3#4{\dochapentry{#2\labelspace#1}{#4}}

% Chapters, in the short toc.
% See comments in \dochapentry re vbox and related settings.
\def\shortchapentry#1#2#3#4{
\tocentry{\shortchaplabel{#2}\labelspace#1}{\doshortpageno\bgroup#4\egroup}}%

% Appendices, in the main contents.
% Need the word Appendix, and a fixed-size box.
%
\def\appendixbox#1{%
% We use M since it's probably the widest letter.
\setbox0 = \hbox{\putwordAppendix{} M}%
\hbox to \wd0{\putwordAppendix{} #1\hss}}%
\def\appentry#1#2#3#4{\dochapentry{\appendixbox{#2}\labelspace#1}{#4}}

% Unnumbered chapters.
\def\unnchapentry#1#2#3#4{\dochapentry{#1}{#4}}
\def\shortunnchapentry#1#2#3#4{\tocentry{#1}{\doshortpageno\bgroup#4\egroup}}

% Sections.
\def\numsecentry#1#2#3#4{\doscentry{#2\labelspace#1}{#4}}
\let\appsecentry=\numsecentry
\def\unnsecentry#1#2#3#4{\doscentry{#1}{#4}}

% Subsections.
\def\numsubsecentry#1#2#3#4{\dosubsecentry{#2\labelspace#1}{#4}}
\let\appsubsecentry=\numsubsecentry
\def\unnsubsecentry#1#2#3#4{\dosubsecentry{#1}{#4}}

% And subsubsections.
\def\numsubsubsecentry#1#2#3#4{\dosubsubsecentry{#2\labelspace#1}{#4}}
\let\appsubsubsecentry=\numsubsubsecentry
\def\unnsubsubsecentry#1#2#3#4{\dosubsubsecentry{#1}{#4}}

% This parameter controls the indentation of the various levels.
% Same as \defaultparindent.
\newdimen\tocindent \tocindent = 15pt

% Now for the actual typesetting. In all these, #1 is the text and #2 is the
% page number.
% % If the toc has to be broken over pages, we want it to be at chapters
% if at all possible; hence the \penalty.
\def\dochapentry#1#2{%
\penalty-300 \vskip1\baselineskip plus.33\baselineskip minus.25\baselineskip
\begingroup
\chapentryfonts
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup
\nobreak\vskip .25\baselineskip plus.1\baselineskip}

\def\doscentry#1#2{\begingroup
\secentryfonts \leftskip=\tocindent
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

\def\dosubsecentry#1#2{\begingroup
\subsecentryfonts \leftskip=2\tocindent
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

\def\dosubsubsecentry#1#2{\begingroup
\subsubsecentryfonts \leftskip=3\tocindent
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}
\def\dosubsecentry#1#2{\begingroup
\subsecentryfonts \leftskip=2\tocindent
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

\def\dosubsubsecentry#1#2{\begingroup
\subsubsecentryfonts \leftskip=3\tocindent
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

% We use the same \entry macro as for the index entries.
\def\tocentry = \entry

% Space between chapter (or whatever) number and the title.
\def\labelspace{\hskip1em \relax}

\def\dopageno#1{{\rm #1}}
\def\doshortpageno#1{{\rm #1}}

\def\chapentryfonts{\secfonts \rm}
\def\secentryfonts{\textfonts}
\def\subsecentryfonts{\textfonts}
\def\subsubsecentryfonts{\textfonts}

\message{environments,}
% @foo ... @end foo.

% @tex ... @end tex escapes into raw TeX temporarily.
% One exception: @ is still an escape character, so that @end tex works.
% But @\ or @@ will get a plain @ character.

\envdef\tex{%
\setupmarkupstyle{tex}%
\catcode `\=0 \catcode `{=1 \catcode `}=2
\catcode `\{=3 \catcode `\|=4 \catcode `\#=6
\catcode `\^=7 \catcode `_=8 \catcode `\-=\active \let\-=\tie
\catcode `\%=14
\catcode `\+=\other
\catcode `\*=\other
\catcode `\|=\other
\catcode `\|=\other
\catcode `\|=\other
\catcode `\|=\other
\catcode `\|=\other
\catcode `\|=\other
\escapechar=`\\%


% ' is active in math mode (mathcode="8000). So reset it, and all our
% other math active characters (just in case), to plain's definitions.
\mathactive
%
\let\b=\ptexb
\let\bullet=\ptexbullet
\let\c=\ptexc
\let\,=\ptexcomma
\let\.=\ptexdot
\let\ldots=\ptexdots
\let\equiv=\ptexequiv
\let\!=\ptexexclam
\let\i=\ptexi
\let\indent=\ptexindent
\let\noindent=\ptexnoindent
\let\{=\ptexlbrace
\let\+=\tabalign
\let\}=\ptexrbrace
\let\slash=\ptexslash
\let\*=\ptexstar
\let\t=\ptext
\expandafter \let\csname top\endcsname=\ptextop  % outer
\let\frenchspacing=\plainfrenchspacing
%
\def\endldots{\mathinner{\ldots\ldots\ldots\ldots}}%
\def\enddots{\relax\ifmmode\endldots\else$\mathsurround=0pt \endldots\,$\fi}%
\def\@{@}%
%
% There is no need to define \Etex.
%
% Define @lisp ... @end lisp.
% @lisp environment forms a group so it can rebind things,
% including the definition of @end lisp (which normally is erroneous).
%
% Amount to narrow the margins by for @lisp.
\newskip\lispnarrowing \lispnarrowing=0.4in
%
% This is the definition that ^^M gets inside @lisp, @example, and other
% such environments. \null is better than a space, since it doesn't
% have any width.
\def\lisppar{\null\endgraf}
%
% This space is always present above and below environments.
\newskip\envskipamount \envskipamount = 0pt
%
% Make spacing and below environment symmetrical. We use \parskip here
% to help in doing that, since in @example-like environments \parskip
% is reset to zero; thus the \afterenvbreak inserts no space -- but the
% start of the next paragraph will insert \parskip.
%
def\aboveenvbreak{{%
% =10000 instead of <10000 because of a special case in \itemzzz and
% \sectionheading, q.v.
\ifnum \lastpenalty=10000 \else
\advance\envskipamount by \parskip
\endgraf
\ifdim\lastskip<\envskipamount
\removelastskip
% it's not a good place to break if the last penalty was \nobreak
% or better ...
\ifnum\lastpenalty<10000 \penalty-50 \fi
\vskip\envskipamount
\fi
\fi
}}
def\afterenvbreak = \aboveenvbreak
%
\def\nonarrowing is a flag. If "set", \lisp etc don't narrow margins; it will
% also clear it, so that its embedded environments do the narrowing again.
def\nonarrowing=\relax
%
\def\cartouche ... \end cartouche: draw rectangle w/rounded corners around
% environment contents.
\font\circle=lcircle10
\newdimen\circthick
\newdimen\cartouter\newdimen\cartinner
\newskip\normbskip\newskip\normpskip\newskip\normlskip
\circthick=\fontdimen8\circle
%
def\ctl{{\circle\char'013\hskip -6pt}}% 6pt from pl file: 1/2charwidth
def\ctr{\hskip 6pt\circle\char'010}
def\cbl{{\circle\char'012\hskip -6pt}}
def\cbr{\hskip 6pt\circle\char'011}
def\carttop{\hbox to \cartouter{\hskip\lskip\ctl\leaders\hrule height\circthick\hfill\ctr
\hskip\rskip}}
def\cartbot{\hbox to \cartouter{\hskip\lskip\cbl\leaders\hrule height\circthick\hfill\cbr
\hskip\rskip}}
%
def\cartouche{\fontdimen8\circle}
%
def\cartouche{%
\ifhmode\par\fi  % can't be in the midst of a paragraph.
def\startsavinginserts
\lskip=\leftskip \vskip=\rightskip
\leftskip=0pt \rightskip=0pt \% we want *outside*.
\cartinner=\hsize \advance\cartinner by-\lskip
\advance\cartinner by-\rskip
\cartouter=\hsize
\advance\cartouter by 18.4pt \% allow for 3pt kerns on either
\% side, and for 6pt waste from
\% each corner char, and rule thickness
\normbskip=\baselineskip \normpskip=\parskip \normlskip=\lineskip
\% Flag to tell \Lisp, etc., not to narrow margin.
\let\nonarrowing = t\% 
\%
\% If this cartouche directly follows a sectioning command, we need the
\% \parskip glue (backspaced over by default) or the cartouche can
\% collide with the section heading.
\ifnum\lastpenalty>10000 \vskip\parskip \penalty\lastpenalty \fi
\% 
\vbox\bgroup
\baselineskip=0pt \parskip=0pt \lineskip=0pt
\carttop
\hbox\bgroup
\hskip\lskip 
\vrule\kern3pt
\vbox\bgroup
\kern3pt
\hsize=\cartinner
\baselineskip=\normbskip
\lineskip=\normlskip
\parskip=\normpskip
\vskip -\parskip
\%
\fi\Ecartouche{\%
\vifhmode\par\fi
\kern3pt
\egroup
\kern3pt\vrule
\hskip\rskip
\egroup
\cartbot
\egroup
\checkinserts
\}%
\%
\ This macro is called at the beginning of all the \example variants,
\% inside a group.
\newdimen\nonfillparindent
\def\nonfillstart{\%
  \aboveenvbreak
  \hfuzz = 12pt % Don't be fussy
  \sepspaces % Make spaces be word-separators rather than space tokens.
  \let\par = \lisppar % don't ignore blank lines
  \obeylines % each line of input is a line of output
  \parskip = 0pt
  % Turn off paragraph indentation but redefine \indent to emulate
  % the normal \indent.
  \nonfillparindent=\parindent
  \parindent = 0pt
  \let\indent\nonfillindent

  \emergencystretch = 0pt % don't try to avoid overfull boxes
  \ifx\nonarrowing\relax
    \advance \leftskip by \lispnarrowing
    \exdentamount=\lispnarrowing
  \else
    \let\nonarrowing = \relax
  \fi
  \let\exdent=\nofillxdent
}

\begingroup
  \obeyspaces
  % We want to swallow spaces (but not other tokens) after the fake
  % @indent in our nonfill-environments, where spaces are normally
  % active and set to @tie, resulting in them not being ignored after
  % @indent.
  \gdef\nonfillindent{\futurelet\temp\nonfillindentcheck}%
  \gdef\nonfillindentcheck{%
    \ifx\temp %
      \onfillindentgobble%
    \else% \onfillindentbox%
    \fi%
  }%
  \endgroup
  \gdef\nonfillindentgobble#1{\nonfillindent}
  \gdef\nonfillindentbox{
    \hbox to \nonfillparindent{\hss}
}
%
% If you want all examples etc. small: @set dispenvsize small.
% If you want even small examples the full size: @set dispenvsize nosmall.
% This affects the following displayed environments:
%    @example, @display, @format, @lisp
%
\def\smallword{small}
\def\nosmallword{nosmall}
\let\SETdispenvsize\relax
\def\setnormaldispenv{%
  \ifx\SETdispenvsize\smallword
    % end paragraph for sake of leading, in case document has no blank
    % line. This is redundant with what happens in \aboveenvbreak, but
    % we need to do it before changing the fonts, and it's inconvenient
    % to change the fonts afterward.
    \ifnum \lastpenalty=1000 \else \endgraf \fi
  \smallexamplefonts \rm
  \fi
}
\def\setsmalldispenv{%
  \ifx\SETdispenvsize\nosmallword
  \else
    \ifnum \lastpenalty=1000 \else \endgraf \fi
    \smallexamplefonts \rm
  \fi
}

% We often define two environments, @foo and @smallfoo.
% Let's do it in one command. #1 is the env name, #2 the definition.
\def\makedispenvdef#1#2{%
  \expandafter\envdef\csname#1\endcsname {\setnormaldispenv #2}%
  \expandafter\envdef\csname small#1\endcsname {\setsmalldispenv #2}%
  \expandafter\let\csname E#1\endcsname \afterenvbreak
  \expandafter\let\csname Esmall#1\endcsname \afterenvbreak
}

% Define two environment synonyms (#1 and #2) for an environment.
\def\maketwodispenvdef#1#2#3{%
  \makedispenvdef{#1}{#3}%
  \makedispenvdef{#2}{#3}%
}

% @lisp: indented, narrowed, typewriter font;
% @example: same as @lisp.
% @smallexample and @smalllisp: use smaller fonts.
% Originally contributed by Pavel@xerox.
% \maketwodispenvdef{lisp}{example}{%
%  \nonfillstart
%  \tt\setupmarkupstyle{example}%
%  \let\kbdfont = \kbdexamplefont % Allow @kbd to do something special.
%  \gobble % eat return
%  \}
% @display/@smalldisplay: same as @lisp except keep current font.
%
% \def\indentedblockstart{%
  \parskip=0pt \aboveenvbreak}% because \aboveenvbreak inserts \parskip
  \parindent=0pt
%
% @cartouche defines \nonarrowing to inhibit narrowing at next level down.
% \ifx\nonarrowing\relax
% \advance\leftskip by \lispnarrowing
% \exdentamount = \lispnarrowing
% \else
% \let\nonarrowing = \relax
% \fi
%
% Keep a nonzero parskip for the environment, since we're doing normal filling.
% \def\Eindentedblock{%
% \par
%  \parskip=0pt \afterenvbreak}%
% \def\Esmallindentedblock{\Eindentedblock}
%
% LaTeX-like @verbatim...@end verbatim and @verb{ <char>...<char> }
% If we want to allow any <char> as delimiter,
% we need the curly braces so that makeinfo sees the @verb command, eg:
% `@verbx...x' would look like the '@verbx' command. --janneke@gnu.org
%
%
% [Knuth] p.344; only we need to do the other characters Texinfo sets
% active too. Otherwise, they get lost as the first character on a
% verbatim line.
% \def\dospecials{%
% \do\ \do\\do\$\do\&
% \do\#\do\^\do\^{K}\do\_\do\^A\do\%^\do\_
% \do\<\do\>\do\|\do\@\do\+\do\"%
% % Don't do the quotes -- if we do, @set txicodequoteundirected and
% @set txicodequotebacktick will not have effect on @verb and
% @verbatim, and ?' and !' ligatures won't get disabled.
% \do\"}
% }
%
% [Knuth] p. 380
% \def\uncatcodespecials{%
% \def\do\#1\{\catcode\#1=other}\dospecials
% }%
% Setup for the @verb command.
\% Eight spaces for a tab
\begingroup
\catcode`\^^I=\active
\gdef\tabeightspaces{\catcode`\^^I=\active\def\^^I{\\\\\\\\}}
\endgroup
\%
\def\setupverb{\%
\tt % easiest (and conventionally used) font for verbatim
\def\par{\leavevmode\endgraf}%
\setupmarkupstyle{verb}%
\tabeightspaces
% Respect line breaks,
% print special symbols as themselves, and
% make each space count
% must do in this order:
\obeylines \uncatcodespecials \sepspaces
}
\%
\def\starttabbox{\global\setbox\verbbox=\hbox{\tt\space}}
\%
\newdimen\tabw % the width so far, or since the previous tab
\dimen\verbbox=\wd\verbbox % the width so far, or since the previous tab
\divide\dimen\verbbox by\tabw % compute previous multiple of \tabw
\advance\dimen\verbbox by\tabw % advance to next multiple of \tabw
\wd\verbbox=\dimen\verbbox % start the verbatim environment.
\def\setupverbatim{%
\let\nonarrowing=t%
\nonfillstart
\tt % easiest (and conventionally used) font for verbatim
% The \leavevmode here is for blank lines. Otherwise, we would
% never \starttabox and the \egroup would end verbatim mode.
\def\par{\leavevmode\egroup\box\verbbox\endgraf}%
\tabexpand
\setupmarkupstyle{verbatim}%
% Respect line breaks, % print special symbols as themselves, and
% make each space count.
% Must do in this order:
\obeylines \uncatcodespecials \sepspaces
\everypar{\starttabbox}%
}

% Do the @verb magic: verbatim text is quoted by unique % delimiter characters. Before first delimiter expect a % right brace, after last delimiter expect closing brace:
%
\def\doverb('{\char#1}{\char'}{#1}
%
% [Knuth] p. 382; only eat outer {}
\begingroup
\catcode`[=1\catcode`]=2\catcode`{=8\catcode`}=10\catcode`\}=10
\gdef\doverb{#1\[\def\next##1#1}\[##1\endgroup\]next}
\endgroup

\def\verb{\begingroup\setupverb\doverb}
%
%
% Do the @verbatim magic: define the macro \doverbatim so that % the (first) argument ends when '@end verbatim' is reached, ie:
%
\def\doverbatim#1@end verbatim{#1}
%
% For Texinfo it's a lot easier than for \LaTeX, % because texinfo's \verbatim doesn't stop at \end{verbatim}:
% we need not redefine \, '{' and '}'.
%
% Inspired by \LaTeX's verbatim command set [latex.ltx]
%
\begingroup
\catcode`\=active
\obeylines%
% ignore everything up to the first ^^M, that's the newline at the end % of the @verbatim input line itself. Otherwise we get an extra blank
\% line in the output.
\% \xdef\doverbatim#1^^M#2@end verbatim{#2
oexpandend\gobble verbatim}\
% We really want {...end verbatim} in the body of the macro, but
% without the active space; thus we have to use \xdef and \gobble.
\endgroup
%
\envdef\verbatim{%
  \setupverbatim\doverbatim
}
\let\Everbatim = \afterenvbreak
%
% \verbatiminclude FILE - insert text of file in verbatim environment.
%
\def\verbatiminclude{\parseargusing\filenamecatcodes\doverbatiminclude}
%
\def\doverbatiminclude#1{% 
  \makevalueexpandable
  \setupverbatim
  \indexnofonts \% Allow `@@' and other weird things in file names.
  \wlog{texinfo.tex: doing \verbatiminclude of #1^^J}%
  \input #1
  \afterenvbreak
}%
%
%
% \copying ... \end copying.
% Save the text away for \insertcopying later.
%
% \verbatiminclude FILE - insert text of file in verbatim environment.
%
\def\copying{% 
  \checkenv{}\begingroup\scanargctxt\docopying
}
\def\docopying#1@end copying{% 
  \endgroup\def\copyingtext{#1}
}
%
\def\insertcopying{% 
  \begingroup
  \parindent = 0pt \% paragraph indentation looks wrong on title page
  \scanexp\copyingtext
  \endgroup
}
% Start the processing of \defn:
\defstartdefun { %
\ifnum\lastpenalty<10000
\medbreak
\defunpenalty=10003 % Will keep this \defn together with the
% following \def command, see below.
\else
% If there are two \def commands in a row, we'll have a \nobreak,
% which is there to keep the function description together with its
% header. But if there's nothing but headers, we need to allow a
% break somewhere. Check specifically for penalty 10002, inserted
% by \prindefunline, instead of 10000, since the sectioning
% commands also insert a nobreak penalty, and we don't want to allow
% a break between a section heading and a defun.
%
% As a further refinement, we avoid "club" headers by signalling
% with penalty of 10003 after the very first \defn in the
% sequence (see above), and penalty of 10002 after any following
% \def command.
\ifnum\lastpenalty=10002 \penalty3000 \else \defunpenalty=10002 \fi
%
% Similarly, after a section heading, do not allow a break.
% But do insert the glue.
\medskip \% preceded by discardable penalty, so not a breakpoint
\fi
%
\parindent=0in
\advance\leftskip by \defbodyindent
\exdentamount=\defbodyindent
}

\def\dodefunx #1 { %
% First, check whether we are in the right environment:
\checkenv #1 %
%
% As above, allow line break if we have multiple x headers in a row.
% It's not a great place, though.
\ifnum\lastpenalty=10002 \penalty3000 \else \defunpenalty=10002 \fi
%
% And now, it's time to reuse the body of the original defun:
\expandafter\gobbledefun#1%
} \def\gobbledefun#1\startdefun{}

% \printdefunline \deffnheader{text}
%
\def\printdefunline#1#2{%
% \begingroup
% call \deffnheader:
#1#2 \endheader
% common ending:
\interlinepenalty = 10000
\advance\rightskip by 0pt plus 1fil\relax
\endgraf
\nobreak\vskip -\parskip
\penalty\defunpenalty  % signal to \startdefun and \dodefunx
% Some of the @defun-type tags do not enable magic parentheses,
% rendering the following check redundant. But we don't optimize.
\checkparencounts
\endgroup
}

\def\Edefun{\endgraf\medbreak}
%
\makedefun{deffn} creates \deffn, \deffnx and \Edeffn;
% the only thing remaining is to define \deffnheader.
%
\def\makedefun#1{%
\expandafter\let\csname E#1\endcsname = \Edefun
\edef\temp{\noexpand\domakedefun
\makecsname{#1}
\makecsname{#1x}
\makecsname{#1header}}\temp
}

\def\domakedefun#1#2#3{%
\envdef#1{\startdefun
\doingtypefnfalse    % distinguish typed functions from all else
\parseargusing\activeparens{\printdefunline#3}%
}%
\def#2{\dodefunx#1}%
\def#3%
}

% \domakedefun \deffn \deffnx \deffnheader
%
% Define \deffn and \deffnx, without parameters.
% \deffnheader has to be defined explicitly.
%
% \def\domakedefun#1#2#3{%
% \envdef#1{\startdefun
% \doingtypefnfalse    % distinguish typed functions from all else
% parseargusing\activeparens{\printdefunline#3}%
}%
% \def#2{\dodefunx#1}%
% \def#3%
}
\newif\ifdoingtypefn % doing typed function?
\newif\ifrettypeownline % typeset return type on its own line?

% @deftypefnnewline on|off says whether the return type of typed functions
% are printed on their own line. This affects @deftypefn, @deftypefun,
% @deftypeop, and @deftypemethod.
%
\parseargdef\deftypefnnewline{%
\def\temp{#1}%
\ifx\temp\onword
\expandafter\let\csname SETtxideftypefnnl\endcsname = \empty
\else\ifx\temp\offword
\expandafter\let\csname SETtxideftypefnnl\endcsname = \relax
\else
\errhelp = \Emsimple
\errmessage{Unknown \@txideftypefnnl value `\temp',
must be on|off}%
\fi\fi
\fi
%
% Untyped functions:
%
% @defn category name args
\makedefun{defn}{\deffngeneral{}%}

% @defn category class name args
\makedefun{defop}{#1 \{\defopon{#1\ \putwordon}}%

% \defopon {category on}class name args
\deffopon{#1\ \putwordon}\{\defn\{#1\}#2\#1\#1\unskip\}

% \deffngeneral {subind}category name args
% %
% \def\deffngeneral#1#2 #3 #4\endheader{%
% \dosubind{fn}{\putwordon}{#2}{#1\#1\unskip}%
% }

% Typed functions:
%
% @deftypefn category type name args
\makedefun{deftypefn}{\deftypefngeneral{}%}

% @deftypeop category class type name args
\makedefun{defun}{\deffnheader{\putwordDeffunc} }
\makedefun{defmac}{\deffnheader{\putwordDefmac} }
\makedefun{defspec}{\deffnheader{\putwordDefspec} }
\makedefun{deftypefun}{\deftypefnheader{\putwordDeffunc} }
\makedefun{defvar}{\defvrheader{\putwordDefvar} }
\makedefun{defopt}{\defvrheader{\putwordDefopt} }
\makedefun{deftypevar}{\deftypevrheader{\putwordDefvar} }
\makedefun{defmethod}{\defopon\putwordMethodon}
\makedefun{deftypemethod}{\deftypeopon\putwordMethodon}
\makedefun{defivar}{\defcvof\putwordInstanceVariableof}
\makedefun{deftypeivar}{\deftypecvof\putwordInstanceVariableof}

\def\defname#1#2#3{%
  \par
  % Get the values of \leftskip and \rightskip as they were outside the @def...
  \advance\leftskip by -\defbodyindent
  %
  % Determine if we are typesetting the return type of a typed function
  % on a line by itself.
  \rettypeownlinefalse
  \ifdoingtypefn
    \setbox0=\hbox{\kern\deflastargmargin \ifx#1\empty[\rm#1]\fi}
  \fi
  %
  % How we'll format the category name. Putting it in brackets helps
  % distinguish it from the body text that may end up on the next line
  % just below it.
  \def\deftemp{#1}%
  \setbox0=\hbox{\kern\deflastargmargin \ifx\temp\empty\else [\rm\temp]\fi}
  %
  % Figure out line sizes for the paragraph shape. We'll always have at
  % least two.
  \tempnum = 2
  %
  % The first line needs space for \box0; but if \rightskip is nonzero,
% we need only space for the part of \box0 which exceeds it:
\dimen0=\hsize \advance\dimen0 by -\wd0 \advance\dimen0 by \rightskip
%
% If doing a return type on its own line, we'll have another line.
\ifretttypeownline
\advance\tempnum by 1
\def\maybeshapeline{0in \hsize} %
\else
\def\maybeshapeline{} %
\fi
%
% The continuations:
\dimen2=\hsize \advance\dimen2 by -\defargsindent
%
% The final paragraph shape:
\parshape \tempnum 0in \dimen0 \maybeshapeline \defargsindent \dimen2
%
% Put the category name at the right margin.
\noindent
\hbox to 0pt{\
\hfil\box0 \kern-\hsize
% \hsize has to be shortened this way:
\kern\leftskip
% Intentionally do not respect \rightskip, since we need the space.
}\%
%
% Allow all lines to be underfull without complaint:
\tolerance=10000 \hbadness=10000
\exdentamount=\defbodyindent
%
% defun fonts. We use typewriter by default (used to be bold) because:
% . we're printing identifiers, they should be in tt in principle.
% . in languages with many accents, such as Czech or French, it's
% common to leave accents off identifiers. The result looks ok in
% tt, but exceedingly strange in rm.
% . we don't want -- and --- to be treated as ligatures.
% . this still does not fix the ? and ! ligatures, but so far no
% one has made identifiers using them :).
\df tt
\def\temp[#2]% text of the return type
\ifx\temp\empty\else
\close{\temp}% typeset the return type
\fi
\ifretttypeownline
% put return type on its own line; prohibit line break following:
\hfill\noindent\break
\else
\space % type on same line, so just followed by a space
\fi
\% no return type
\% output function name
\%
\\% hskip 0.5 em of \tenrm
\%
\boldbrax
\% arguments will be output next, if any.
}

\%
\% Print arguments in slanted roman (not ttsl), inconsistently with using
\% tt for the name. This is because literal text is sometimes needed in
\% the argument list (groff manual), and ttsl and tt are not very
\% distinguishable. Prevent hyphenation at \`\-' chars.
\%
\def\defunargs#1{\%
\% use sl by default (not ttsl),
\% tt for the names.
\df \sl \hyphenchar\font=0
\%
\% On the other hand, if an argument has two dashes (for instance), we
\% want a way to get ttsl. We used to recommend @var for that, so
\% leave the code in, but it's strange for @var to lead to typewriter.
\% Nowadays we recommend @code, since the difference between a ttsl hyphen
\% and a tt hyphen is pretty tiny. @code also disables ?` !`.
\def\var##1{{\setupmarkupstyle{var}\ttslanted{##1}}}
#1\sl\hyphenchar\font=45
}

\%
\% We want ()&\[] to print specially on the defun line.
\%
\def\activeparens\%
\% Make control sequences which act like normal parenthesis chars.
\let\lparen = ( \let\rparen = )
\%
\%
\% Be sure that we always have a definition for `\', etc. For example,
\% if the fn name has parens in it, \boldbrax will not be in effect yet,
\% so TeX would otherwise complain about undefined control sequence.
\{
\activeparens
\global\let(=\lparen \global\let)=\rparen
\global\let[=\lbrack \global\let]=\rbrack
\global\let&=\&
\{\textbf{bf}\}%
\global\advance\brackcount by -1
\
\def\checkparencounts{%
  \ifnum\parencount=0 \else \badparencount \fi
  \ifnum\brackcount=0 \else \badbrackcount \fi
}\%
% these should not use \errmessage; the glibc manual, at least, actually
% has such constructs (when documenting function pointers).
\def\badparencount{%
  \message{Warning: unbalanced parentheses in @def...}%
  \global\parencount=0
}\%
\def\badbrackcount{%
  \message{Warning: unbalanced square brackets in @def...}%
  \global\brackcount=0
}\%
% these should not use \errmessage; the glibc manual, at least, actually
% has such constructs (when documenting function pointers).
\message{macros,}
% @macro.
%
% To do this right we need a feature of e-TeX, \scantokens,
% which we arrange to emulate with a temporary file in ordinary TeX.
\ifx\eTeXversion\thisisundefined
\newwrite\macscribble
\def\scantokens#1{%
  \toks0={#1}%
  \immediate\openout\macscribble=\jobname.tmp
  \immediate\write\macscribble{\the\toks0}%
  \immediate\closeout\macscribble
  \input \jobname.tmp
}\%
\fi
% these should not use \errmessage; the glibc manual, at least, actually
% has such constructs (when documenting function pointers).
\message{macros,}
% @macro.
%
% To do this right we need a feature of e-TeX, \scantokens,
% which we arrange to emulate with a temporary file in ordinary TeX.
\ifx\eTeXversion\thisisundefined
\newwrite\macscribble
\def\scantokens#1{%
  \toks0={#1}%
  \immediate\openout\macscribble=\jobname.tmp
  \immediate\write\macscribble{\the\toks0}%
  \immediate\closeout\macscribble
  \input \jobname.tmp
}\%
\fi
% these should not use \errmessage; the glibc manual, at least, actually
% has such constructs (when documenting function pointers).
\message{macros,}
% @macro.
%
% To do this right we need a feature of e-TeX, \scantokens,
% which we arrange to emulate with a temporary file in ordinary TeX.
\spaceisspace
%
% The \empty here causes a following catcode 5 newline to be eaten as
% part of reading whitespace after a control sequence. It does not
% eat a catcode 13 newline. There's no good way to handle the two
% cases (untried: maybe e-TeX's \everyeof could help, though plain TeX
% would then have different behavior). See the Macro Details node in
% the manual for the workaround we recommend for macros and
% line-oriented commands.
%
\scantokens{#1\empty}\
\endgroup

\def\scanexp#1{\edef\temp{\noexpand\scanmacro{#1}}\temp}

\newcount\paramno % Count of parameters
\newtoks\macname   % Macro name
\newif\ifrecursive % Is it recursive?

% List of all defined macros in the form
% \definedummyword\macro1\definedummyword\macro2...
% Currently is also contains all @aliases; the list can be split
% if there is a need.
\def\macrolist{}

% Add the macro to \macrolist
\def\addtomacrolist#1{\expandafter\addtomacrolistxxx \csname#1\endcsname}
\def\addtomacrolistxxx#1{\toks0 = \expandafter{\macrolist\definedummyword#1}\the\toks0}

% Utility routines.
% This does \let #1 = #2, with \csnames; that is,
% \let \csname#1\endcsname = \csname#2\endcsname
% (except of course we have to play expansion games).
%
\def\cslet#1#2{\expandafter\let\csname#1\endcsname\csname#2\endcsname}

% Trim leading and trailing spaces off a string.
% Concepts from aro-bend problem 15 (see CTAN).
% Trim a single trailing \^M off a string.
The \stringmacro{\eatcr}{\^M=M=\other \stringmacro{\catcode}{^\other}=%
The \stringmacro{\eatcr}{\^M=M=\other \stringmacro{\catcode}{^\other}=%
The \stringmacro{\eatcr}{\^M=M=\other \stringmacro{\catcode}{^\other}=%
The \stringmacro{\eatcr}{\^M=M=\other \stringmacro{\catcode}{^\other}=%
It's necessary to have hard CRs when the macro is executed. This is
% done by making ^^M (endlinechar) catcode 12 when reading the macro
% body, and then making it the \newlinechar in \scanmacro.
%\def\scanctxt{\% used as subroutine\catcode``\^\other\catcode``\+=\other\catcode``\<\other\catcode``\>\other\catcode``\@\other\catcode``\^\other\catcode``\_\other\catcode``\|\other\catcode``\~\other\fi\def\scanaargctxt{\% used for copying and captions, not macros.\scanctxt\catcode``\\=\other\catcode``\^\other\catcode``\+=\other\catcode``\<\other\catcode``\>\other\catcode``\@\other\catcode``\^\other\catcode``\_\other\catcode``\=\other\catcode``\~\other\\if\declaredencoding ascii \else \setnonasciicharscatcodenonglobal \other \fi
\def\scnamacrobodyctxt{\% used for @macro definitions
\def\macroargctxt{% used when scanning invocations
\scanctxt
\catcode`\=0
}
% why catcode 0 for \ in the above? To recognize \{ \} as "_escapes"
% for the single characters \ { }. Thus, we end up with the "commands"
% that would be written @\@ @ \ in a Texinfo document.
%
% We already have @{ and @}. For @\, we define it here, and only for
% this purpose, to produce a typewriter backslash (so, the @\ that we
% define for @math can't be used with @macro calls):
%
\def\\@normalbackslash %
%
% We would like to do this for \, too, since that is what makeinfo does.
% But it is not possible, because Texinfo already has a command @, for a
% cedilla accent. Documents must use @comma{} instead.
%
% \anythingelse will almost certainly be an error of some kind.

{% mbodybackslash is the definition of \ in @macro bodies.
% It maps \foo\ => \csname macarg.foo\endcsname => #N
% where N is the macro parameter number.
% We define \csname macarg.\endcsname to be @realbackslash, so
% \ in macro replacement text gets you a backslash.
%
{% \catcode`@=0 @catcode`\=active
\gdef@mbodybackslash@\let@=mbodybackslash
\gdef@mbodybackslash#1\{%\csname macarg.#1@endcsname
%
\expandafter\def\csname macarg.\endcsname\realbackslash
\def@margbackslash#1{%char`#1
%
\def\macro{\recursivefalse\parsearg\macroxxx}
\def\rmacro{\recursivetrue\parsearg\macroxxx}
\def\macroxxx#1{%
\getargs{#1} % now \macname is the macname and \argl the arglist
\ifx\argl\empty % no arguments

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% This makes use of the obscure feature that if the last token of a
% <parameter list> is #, then the preceding argument is delimited by
% an opening brace, and that opening brace is not consumed.
def\getargs#1{\getargsxxx#1{}{}}
def\getargsxxx#1#{\getmacname #1 \relax \getmacargs}
def\getmacname#1 #2\relax{\macname={#1}}
def\getmacargs#1{\def\argl{#1}}

% For macro processing make @ a letter so that we can make Texinfo private macro names.
def\texiatcatcode{"the\catcode`\@} 
catcode`@=11 \relax

% Parse the optional {params} list. Set up \paramno and \paramlist
% so \defmacro knows what to do. Define \macarg.BLAH for each BLAH
% in the params list to some hook where the argument si to be expanded. If
% there are less than 10 arguments that hook is to be replaced by ##N where N
% is the position in that list, that is to say the macro arguments are to be
% defined `a la TeX in the macro body.
%
% That gets used by \nbodybackslash (above).
%
% We need to get `macro parameter char #` into several definitions.
% The technique used is stolen from LaTeX: let \hash be something
% unexpandable, insert that wherever you need a #, and then redefine
% it to # just before using the token list produced.
%
% The same technique is used to protect \eatspaces till just before
% the macro is used.
%
% If there are 10 or more arguments, a different technique is used, where the
% hook remains in the body, and when macro is to be expanded the body is
% processed again to replace the arguments.
%
% In that case, the hook is \the\toks N-1, and we simply set \toks N-1 to the
% argument N value and then \edef the body (nothing else will expand because of
% the the catcode regime underwhich the body was input).
%
% If you compile with TeX (not eTeX), and you have macros with 10 or more
% arguments, you need that no macro has more than 256 arguments, otherwise an
% error is produced.
def\parsemargdef#1;{%
\paramno=0\def\paramlist{ }%
def\hash\relax 
def\eatspaces\relax 
def\parsemargdefxxx#1,;,%
% In case that there are 10 or more arguments we parse again the arguments
% list to set new definitions for the `macarg.BLAH` macros corresponding to
% each BLAH argument. It was anyhow needed to parse already once this list
% in order to count the arguments, and as macros with at most 9 arguments
% are by far more frequent than macro with 10 or more arguments, defining
% twice the `macarg.BLAH` macros does not cost too much processing power.
\ifnum\paramno<10\relax\else
  \paramno=0\relax
\fi
\def\parsemanyargdef@@#1,;,% 10 or more arguments
\fi
}
\def\parseargdefxxx#1,{{
\if#1;\let\next=\relax
\else \let\next=\parseargdefxxx
  \advance\paramno by 1
  \expandafter\edef\csname macarg.\eatspaces{#1}\endcsname
    {\xeatspaces{\hash\the\paramno}}%
  \edef\paramlist{\paramlist\hash\the\paramno,}%
\fi\next}
}
\def\parsemanyargdef@@#1,{{
\if#1;\let\next=\relax
\else\let\next=\parsemanyargdef@@
  \edef\tempb{\eatspaces{#1}}%
  \expandafter\def\expandafter\tempa
    \expandafter{\csname macarg.\tempb\endcsname}
  \expandafter\edef\tempa
    {\noexpand\noexpand\noexpand\the\toks\the\paramno}%
\advance\paramno by 1\relax
\fi\next}
\def\parsetoks{
% These two commands read recursive and nonrecursive macro bodies.
% (They’re different since rec and nonrec macros end differently.)
%
\catcode`\@=11\relax
\let\endargs@\relax
\let\nil@\relax
\def\nilm@{\nil@}%
\long\def\nilm@{\nil@}%

% This macro is expanded during the Texinfo macro expansion, not during its
% definition. It gets all the arguments values and assigns them to macros
% macarg.ARGNAME
%
% #1 is the macro name
% #2 is the list of argument names
% #3 is the list of argument values
\def\getargvals@#1#2#3{%
\def\macargdeflist@{}%
\def\saveparamlist@{#2}% Need to keep a copy for parameter expansion.
\def\paramlist{#2,\nil@}%
\def\macroname{#1}%
\begingroup
\macroargctxt
\def\argvaluelist{#3,\nil@}%
\def\@tempa{#3}%
\ifx\@tempa\empty
\setemptyargvalues@
\else
\getargvals@@
\fi
}
%
\def\getargvals@@{%
\ifx\paramlist\nilm@
% Some sanity check needed here that \argvaluelist is also empty.
\ifx\argvaluelist\nilm@
\else
\errhelp = \EMsimple
\errmessage{Too many arguments in macro `'\macroname'!}%
\fi
\let\next\macargexpandinbody@
\else
\ifx\argvaluelist\nilm@
% No more arguments values passed to macro. Set remaining named-arg
% macros to empty.
\let\next\setemptyargvalues@
\else
% pop current arg name into \@tempb
\def\@tempa##1\{\pop@ {\@tempb} {\paramlist}##1\endargs@}%
\expandafter\@tempa\expandafter{\paramlist}\
% pop current argument value into \@tempc
\def\@tempa##1\{\longpop@ {\@tempc} {\argvaluelist}##1\endargs@}%
\expandafter\@tempa\expandafter{\argvaluelist}%
% Here \@tempb is the current arg name and \@tempc is the current arg value.
\fi
}
\endgroup
\macargdeflist@
% First the replace in body the macro arguments by their values, the result
% is in \@tempa .
\macvalstoargs@
% Then we point at the \norecurse or \gobble (for recursive) macro value
% with \@tempb .
\expandafter\let\expandafter\@tempb\csname mac\macroname .recurse\endcsname
% Depending on whether it is recursive or not, we need some tailing
% \egroup .
\ifx\@tempb\gobble
  \let\@tempc\relax
\else
  \let\@tempc\egroup
\fi
% And now we do the real job:
\edef\@tempd{\noexpand\@tempb{\macroname}\noexpand\scanmacro{\@tempa}\@tempc}%
\@tempd
}
\def\putargsintokens@#1,{%
\if#1;\let\next\relax
\else
  \let\next\putargsintokens@
% First we allocate the new token list register, and give it a temporary
% alias \@tempb .
\toksdef\@tempb\the\paramno
% Then we place the argument value into that token list register.
\expandafter\let\expandafter\@tempa\csname macarg.#1\endcsname
\expandafter\@tempb\expandafter{\@tempa}\advance\paramno by 1\relax
\fi
\next
}
% Save the token stack pointer into macro #1
\def\texisavetoksstackpoint#1{\edef#1{\the\@cclvi}}
% Restore the token stack pointer from number in macro #1
\def\texirestoretoksstackpoint#1{\expandafter\mathchardef\expandafter\@cclvi#1\relax}
% newtoks that can be used non \outer .
\def\texinonouternewtoks{\alloc@ 5\toks \toksdef \@cclvi}

% Tailing missing arguments are set to empty
\def\setemptyargvalues@{%
\ifx\paramlist\nilm@
  \let\next\macargexpandinbody@
\else
  \expandafter\macargexpandinbody@\setemptyargvalues@\paramlist\endargs@
\fi
}
\def\setemptyargvalues@\setemptyargvalues@ \fi \next
}

\def\setemptyargvaluesparser@#1,#2\endargs@{\%
\expandafter\def\expandafter\@tempa\expandafter{\%
\expandafter\def\csname macarg.#1\endcsname{}}\%
\push@\@tempa/macargdeflist@}
\def\paramlist{#2}\%
}

% #1 is the element target macro  
% #2 is the list macro  
% #3,#4\endargs@ is the list value  
\def\pop@#1#2#3,#4\endargs@{\%
\def#1{#3}\%
\def#2{#4}\%
}
\longdef\longpop@#1#2#3,#4\endargs@{\%
\longdef#1{#3}\%
\longdef#2{#4}\%
}

% This defines a Texinfo @macro. There are eight cases: recursive and  
% nonrecursive macros of zero, one, up to nine, and many arguments.  
% Much magic with \expandafter here.  
% \xdef is used so that macro definitions will survive the file  
% they're defined in; @include reads the file inside a group.  
% \def\defmacro{\%
\let\hash=##% convert placeholders to macro parameter chars  
\ifrecursive
% case\paramno
% 0
\expandafter\xdef\csname the\macname\endcsname{\%
\noexpand\scanmacro{temp}]\%
% or % 1
\expandafter\xdef\csname the\macname\endcsname{\%
\bgroup\noexpand\macroargctxt  
\noexpand\braceorline  
\expandafter\noexpand\csname the\macname xxx\endcsname}\%
\expandafter\xdef\csname the\macname xxx\endcsname##1{\%
\egroup\noexpand\scanmacro{temp}]\%
% else
\ifnum\paramno<10\relax% at most 9
\expandafter\xdef\csname the\macname\endcsname{\%
\bgroup\noexpand\macroargctxt
\noexpand\getargvals@{\the\macname}{\argl}\
\global\expandafter\let\csname mac.\the\macname.body\endcsname\temp
\global\expandafter\let\csname mac.\the\macname.recurse\endcsname\norecurse
\fi
\fi
\fi
\catcode`\@=\relax
\def\norecurse#1{\bgroup\cslet{#1}{macsave.#1}}
% \braceorline decides whether the next non-whitespace character is a 
% {. If so it reads up to the closing }, if not, it reads the whole 
% line. Whatever was read is then fed to the next control sequence 
% as an argument (by \parsebrace or \parsearg).
% \def\braceorline#1{\let\macnamexxx=#1\futurelet\nchar\braceorlinexxx}
\def\braceorlinexxx{\ifx\nchar\bgroup\else\expandafter\parsearg\fi\macnamexxx}
% @alias.
% We need some trickery to remove the optional spaces around the equal 
% sign. Make them active and then expand them all to nothing.
% \def\alias{\parseargusing\obeyspaces\aliasxxx}
\def\aliasxxx #1{\aliasyyy#1\relax}
\def\aliasyyy #1=#2\relax{{\expandafter\let\obeyedspace=\empty
\addtomacrolist{#1}\xdef\next{\global\let\makecsname{#1}=\makecsname{#2}}}
\next}
\message{cross references,}
\newwrite\auxfile
\newif\havexrefs % True if xref values are known.
\newif\warnedxrefs % True if we warned once that they aren't known.
% @inforef is relatively simple.
\def\inforef #1{\inforefzzz #1,,,,**}
\def\inforefzzz #1,#2,#3,#4**{% 
\putwordSee{} \putwordInfo{} \putwordfile{} \file{\ignorespaces #3{}}, node \samp{\ignorespaces#1{}}}

% @node's only job in TeX is to define \lastnode, which is used in % cross-references. The @node line might or might not have commas, and % might or might not have spaces before the first comma, like: % @node foo, bar, ...
% We don't want such trailing spaces in the node name.
%
\parsearg\def\node{\checkenv{ }}\donode #1 \finishnodeparse
%
% also remove a trailing comma, in case of something like this:
% @node Help-Cross, , Cross-ref
\def\donode#1,#2\finishnodeparse{\dodonode #1,#2\finishnodeparse}
\def\dodonode#1,#2\finishnodeparse{\gdef\lastnode{#1}}

\let\wnode=\node
\let\lastnode=\empty

% Write a cross-reference definition for the current node. #1 is the % type (Ynumbered, Yappendix, Ynothing).
%
\def\donoderef#1{%
\ife\lastnode\empty\else
  \setref{\lastnode}{#1}\
  \global\let\lastnode=\empty
\fi
}
%
% @anchor{NAME} -- define xref target at arbitrary point.
%
\newcount\savesfregister
%
\def\savesf{\relax \ifhmode \savesfregister=\spacefactor \fi}
\def\restoresf{\relax \ifhmode \spacefactor=\savesfregister \fi}
\def\anchor#1{\savesf \setref{#1}{Ynothing} \restoresf \ignorespaces}
%
% \setref{NAME}{SNT} defines a cross-reference point NAME (a node or an % anchor), which consists of three parts:
% 1) NAME-title - the current sectioning name taken from \lastsection,
% or the anchor name.
% 2) NAME-snt - section number and type, passed as the SNT arg, or % empty for anchors.
% 3) NAME-pg - the page number.
%
% This is called from \donoderef, \anchor, and \dofloat. In the case of % floats, there is an additional part, which is not written here:
\makevalueexpandable
% This expands tokens, so do it after making catcode changes, so _
% etc. don't get their TeX definitions. This ignores all spaces in
% #4, including (wrongly) those in the middle of the filename.
\getfilename{#4}%
%
% This (wrongly) does not take account of leading or trailing
% spaces in #1, which should be ignored.
\edef\pdfxrefdest{#1}%
\ifx\pdfxrefdest\empty
\def\pdfxrefdest{Top}% no empty targets
\else
\txiescapepdf\pdfxrefdest % escape PDF special chars
\fi
\leavevmode
\startlink attr{/Border [0 0 0]}%
\ifnum\filenamelength>0
goto file[{the\filename.pdf} name{\pdfxrefdest}]%
\else
goto name[{pdfmkpgn{\pdfxrefdest}}]%
\fi
%}
\setcolor{\linkcolor}\
%
% Float references are printed completely differently: "Figure 1.2"
% instead of "[somenode], p.3". We distinguish them by the
% LABEL-title being set to a magic string.
{
% Have to otherify everything special to allow the `csname to
% include an _ in the xref name, etc.
\indexnofonts
\turnoffactive
\expandafter\global\expandafter\let\expandafter\Xthisreftitle
\csname XR#1-title\endcsname
}
\iffloat\Xthisreftitle
% If the user specified the print name (third arg) to the ref,
% print it instead of our usual "Figure 1.2".
\ifdim\wd\printedrefnamebox = 0pt
\reff{}{#1-snt}{}%
\else
\printedrefname
\fi
%
% If the user also gave the printed manual name (fifth arg), append
% "in MANUALNAME".
\fi
\endlink
\endgroup

% Output a cross-manual xref to #1. Used just above (twice).
%
% Only include the text "Section ``foo'' in" if the foo is neither
% missing or Top. Thus, @xref{,,,foo,The Foo Manual} outputs simply
% "see The Foo Manual", the idea being to refer to the whole manual.
%
% But, this being TeX, we can't easily compare our node name against the
% string "Top" while ignoring the possible spaces before and after in
% the input. By adding the arbitrary 7sp below, we make it much less
% likely that a real node name would have the same width as "Top" (e.g.,
% in a monospaced font). Hopefully it will never happen in practice.
%
% For the same basic reason, we retypeset the "Top" at every
% reference, since the current font is indeterminate.
%
def\crossmanualxref#1{%
  \setbox\toprefbox = \hbox{Top\kern7sp}%
  \setbox2 = \hbox{\ignorespaces \printedrefname \unskip \kern7sp}%
  \ifdim \wd2 > 7sp  % nonempty?
    \ifdim \wd2 = \wd\toprefbox \else  % same as Top?
      \putwordSection{} ``\printedrefname" \putwordin{}
    \else
      \putwordSection{}\ `\`\printedrefname" \putwordin{}
    \fi
  \fi
  \fi
  #1%
}

% This macro is called from \xrefX for the `[nodename]' part of xref
% output. It's a separate macro only so it can be changed more easily,
% since square brackets don't work well in some documents. Particularly
% one that Bob is working on :).
%
def\xrefprintnodename#1{[#1]}

% Things referred to by \setref.
%
def\Ynothing{}% def\Yomitfromtoc{}
\def\Ynumbered{%
  \ifnum\secno=0
    \putwordChapter@tie \thechapno
  \else \ifnum\subsecno=0
    \putwordSection@tie \thechapno.\thesecno
  \else \ifnum\subsubsecno=0
    \putwordSection@tie \thechapno.\thesecno.\thesubsecno
  \else
    \putwordSection@tie \thechapno.\thesecno.\thesubsecno.\thesubsubsecno
  \fi\fi\fi

\def\Yappendix{% 
\ifnum\secno=0 
\putwordAppendix@tie \char\the\appendixno{}% \else 
\ifnum\subsecno=0 
\putwordSection@tie \char\the\appendixno.\the\secno \else 
\ifnum\subsubsecno=0 
\putwordSection@tie \char\the\appendixno.\the\secno.\the\subsecno \else 
\putwordSection@tie \char\the\appendixno.\the\secno.\the\subsecno.\the\subsubsecno \fi \fi \fi \fi \fi 

% Define \refx{NAME}{SUFFIX} to reference a cross-reference string named NAME. 
% If its value is nonempty, SUFFIX is output afterward. 
% 
\def\refx#1#2{% 
{\indexnofonts \therbackslash \expandafter\global\expandafter\let\expandafter\thisrefX \csname XR#1\endcsname \csname XREnd\endcsname} 
\ifx\thisrefX\relax % If not defined, say something at least. 
\angleleft undefined\angleright \iflinks \ifhavexrefs \toks0 = {#1}% avoid expansion of possibly-complex value \message{linenumber Undefined cross reference `the\toks0'.} % \else \ifwarnedxrefs\else \global\warnedxrefstrue \message{Cross reference values unknown; you must run TeX again.} \fi \fi \else % It's defined, so just use it. \thisrefX \fi \fi \else % Output the suffix in any case. 
}
% This is the macro invoked by entries in the aux file. Usually it's
% just a \def (we prepend XR to the control sequence name to avoid
% collisions). But if this is a float type, we have more work to do.
%
\def\xrdef#1#2{%
  {% The node name might contain 8-bit characters, which in our current
  % implementation are changed to commands like @'e. Don't let these
  % mess up the control sequence name.
  \indexnofonts
  \turnoffactive
  \xdef\safexrefname{#1}%
  %
  \expandafter\gdef\csname XR\safexrefname\endcsname{#2}% remember this xref
%
  % Was that xref control sequence that we just defined for a float?
  \expandafter\iffloat\csname XR\safexrefname\endcsname
    % it was a float, and we have the (safe) float type in \iffloattype.
    \expandafter\let\expandafter\floatlist
        \csname floatlist\iffloattype\endcsname
  %
  % Is this the first time we've seen this float type?
  \expandafter\unskip\#\expandafter\iffloat\csname floatlist\iffloattype\endcsname\relax
    \toks0 = {\do}% yes, so just \do
  \else
    % had it before, so preserve previous elements in list.
    \toks0 = \expandafter{\floatlist\do}%
  \fi
    %
    % Remember this xref in the control sequence \floatlistFLOTTYPEx,
    % for later use in \listoffloats.
    \expandafter\xdef\csname floatlist\iffloattype\endcsname{\the\toks0
      {\safexrefname}}%
  \fi
}%
%
% Read the last existing aux file, if any. No error if none exists.
%
\def\tryauxfile{%
  \openin 1 \jobname.aux
  \ifeof 1 \else
    \readdatafile{aux}%
    \global\havexreftrue
  \fi
  \closein 1
}%

\def\setupdatafile{%
% It was suggested to set the catcode of ^ to 7, which would allow \^e4 etc.
% in xref tags, i.e., node names. But since \^e4 notation isn't
% supported in the main text, it doesn't seem desirable. Furthermore,
% that is not enough: for node names that actually contain a ^
% character, we would end up writing a line like this: \xrdef {\hat
% b-title} {\hat b} and \xrdef does a \csname...\endcsname on the first
% argument, and \hat is not an expandable control sequence. It could
% all be worked out, but why? Either we support \^ or we don't.
%
% The other change necessary for this was to define \auxhat:
% \def\auxhat{\def\^\{\hat }% extra space so ok if followed by letter
% and then to call \auxhat in \setq.
%
% \catcode`\^=\other
%
% Special characters. Should be turned off anyway, but...
% \catcode`\-=\other
% \catcode`\%=\other
% \catcode`\|=\other
% \catcode`\%=\other
% \catcode`\^_=\other
% This is to support \ in node names and titles, since the \ characters end up in a \csname. It's easier than leaving it active and making its active definition an actual \ character. What I don't understand is why it works in the *value* of the xrdef. Seems like it should be a catcode12 \, and that should not typeset properly. But it works, so I'm moving on for now. --karl, 15jan04.
\catcode`\=%\other
%
% Make the characters 128-255 be printing characters.
{\count1=128
 \def\loop{{\catcode\count1=%\other
 \advance\count1 by 1
 \ifnum\count1<256 \loop \fi}
 }%
%
% @ is our escape character in .aux files, and we need braces.
\catcode`{=1
\catcode`}=2
\catcode`@=0
}
\edef\readdatafile#1{%
\begingroup
\setupdatafile
\input\jobname.#1
\endgroup}
\message{insertions,}% including footnotes.
\newcount\footnoteno
%
The trailing space in the following definition for supereject is vital for proper filling; pages come out unaligned when you do a
% pagealignmacro call if that space before the closing brace is
% removed. (Generally, numeric constants should always be followed by a
% space to prevent strange expansion errors.)
\def\supereject{\par\penalty -20000\footnoteno = 0 }

% @footnotestyle is meaningful for Info output only.
\let\footnotestyle = \comment

{%
catcode `\@=11
%
% Auto-number footnotes. Otherwise like plain.
gdef\footnote{%
\let\indent = \ptexindent
\let\noindent = \ptexoindent
\global\advance\footnoteno by \@ne
\edef\thisfootno{$^\the\footnoteno$}%
%
% In case the footnote comes at the end of a sentence, preserve the
% extra spacing after we do the footnote number.
\let@sf = empty
\ifhmode\edef@sf{\spacefactor\the\spacefactor}\ptexslash\fi
%
% Remove inadvertent blank space before typesetting the footnote number.
\unskip
\thisfootno\@sf
\dofootnote
}%

% Don't bother with the trickery in plain.tex to not require the
% footnote text as a parameter. Our footnotes don't need to be so general.
%
% Oh yes, they do; otherwise, @ifset (and anything else that uses
% \parseargline) fails inside footnotes because the tokens are fixed when
% the footnote is read. --karl, 16nov96.
%
gdef\dofootnote{%
\insert\footins\bgroup
% We want to typeset this text as a normal paragraph, even if the
% footnote reference occurs in (for example) a display environment.
% So reset some parameters.
\hsize=\pagewidth
\interlinepenalty\interfootnotelinepenalty
\splitopkip@h\strutbox % top baseline for broken footnotes
\splitmaxdepth\dp\strutbox
\floatingpenalty\@MM
\leftskip\z@skip
\rightskip\z@skip
\spaceskip\z@skip
\egroup}
\@skipz@skip
\defaultparindent
%
\smallfonts \rm
%
% Because we use hanging indentation in footnotes, a \noindent appears
% to exdent this text, so make it be a no-op. makeinfo does not use
% hanging indentation so \noindent can still be needed within footnote
% text after an \example or the like (not that this is good style).
\let\noindent = \relax
%
% Hang the footnote text off the number. Use \everypar in case the
% footnote extends for more than one paragraph.
\everypar = {\hang}\%
\textindent{\thisfootno}\%
%
% Don't crash into the line above the footnote text. Since this
% expands into a box, it must come within the paragraph, lest it
% provide a place where TeX can split the footnote.
\footstrut
%
% Invoke rest of plain TeX footnote routine.
\futurelet\next\fo@t
}
} %end \catcode`\@=11

% In case a \footnote appears in a vbox, save the footnote text and create
% the real \insert just after the vbox finished. Otherwise, the insertion
% would be lost.
% Similarly, if a \footnote appears inside an alignment, save the footnote
% text to a box and make the \insert when a row of the table is finished.
% And the same can be done for other insert classes. --kasal, 16nov03.

% Replace the \insert primitive by a cheating macro.
% Deeper inside, just make sure that the saved insertions are not spilled
% out prematurely.
%
\def\startsavinginserts{%
  \ifx \insert\ptexinsert
    \let\insert\saveinsert
  \else
    \let\checkinserts\relax
  \fi
}
%
% This \insert replacement works for both \insert\footins{foo} and
% \insert\footins\bgroup foo\egroup, but it doesn't work for \insert27{foo}.
% doc/epsf.tex and on ctan).
\def\epsfannounce{\toks0 = }%
\input epsf.tex
\fi
\closein 1
%
% We will only complain once about lack of epsf.tex.
\newif\ifwarnednoepsf
\newhelp\noepsfhelp{epsf.tex must be installed for images to work. It is also included in the Texinfo distribution, or you can get it from ftp://tug.org/tex/epsf.tex.}%
%
\def\image#1{%
\ifx\epsfbox\thisisundefined
\ifwarnednoepsf \else
\errhelp = \noepsfhelp
\errmessage{epsf.tex not found, images will be ignored}%
\global\warnednoepsftrue
\fi
\else
\imagexxx #1,,,,,\finish
\fi
}%
%
% Arguments to \image:
% #1 is (mandatory) image filename; we tack on .eps extension.
% #2 is (optional) width, #3 is (optional) height.
% #4 is (ignored optional) html alt text.
% #5 is (ignored optional) extension.
% #6 is just the usual extra ignored arg for parsing stuff.
\newif\ifimagevmode
\def\imagexxx#1,#2,#3,#4,#5,#6\finish{\begingroup
\catcode`\^^M = 5     % in case we're inside an example
\normalturnoffactive  % allow _ et al. in names
% If the image is by itself, center it.
\ifimagevmode
\nobreak\medskip
% Usually we'll have text after the image which will insert
% \parskip glue, so insert it here too to equalize the space
% above and below.
\else \ifx\centersub\centerV
% for \center \image, we need a vbox so we can have our vertical space
\imagevmodetrue
\vbox\bgroup % vbox has better behavior than vtop herev
\fi\fi
%}
\ifimagevmode
\imagevmodetrue
\else \ifx\centersub\centerV
% for \center \image, we need a vbox so we can have our vertical space
\imagevmodetrue
\vbox\bgroup % vbox has better behavior than vtop herev
\fi\fi
%}
\imagexxx#1,##3ibly{\begingroup
\catcode`\^^M = 5     % in case we're inside an example
\normalturnoffactive  % allow _ et al. in names
% If the image is by itself, center it.
\ifimagevmode
\nobreak\medskip
% Usually we'll have text after the image which will insert
% \parskip glue, so insert it here too to equalize the space
% above and below.
\nobreak
\skip
\parskip
\nobreak
\fi
%
% Leave vertical mode so that indentation from an enclosing
% environment such as @quotation is respected.
% However, if we're at the top level, we don't want the
% normal paragraph indentation.
% On the other hand, if we are in the case of @center @image, we don't
% want to start a paragraph, which will create a hsize-width box and
% eradicate the centering.
\ifx\centersub\centerV\else \noindent \fi
%
% Output the image.
\ifpdf
\dopdfimage{#1}{#2}{#3}\
\else
% \epsfbox itself resets \epsf?size at each figure.
\setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt \epsfxsize=#2\relax \fi
\setbox0 = \hbox{\ignorespaces #3}\ifdim\wd0 > 0pt \epsfysize=#3\relax \fi
\epsfbox{#1.eps}\
\fi
%
\ifimagevmode
\medskip  % space after a standalone image
\fi
\ifx\centersub\centerV \egroup \fi
\endgroup}

% @float FLOATTYPE,LABEL,LOC ... @end float for displayed figures, tables,
% etc.  We don't actually implement floating yet, we always include the
% float "here".  But it seemed the best name for the future.
%
\envparseargdef\float{\eatcommaspace\eatcommaspace\dofloat#1, , ,\finish}

% There may be a space before second and/or third parameter; delete it.
\def\eatcommaspace{#1, , ,\finish}

% #1 is the optional FLOATTYPE, the text label for this float, typically
% "Figure", "Table", "Example", etc.  Can't contain commas.  If omitted,
% this float will not be numbered and cannot be referred to.
%
% #2 is the optional xref label.  Also must be present for the float to
% be referable.
%
% #3 is the optional positioning argument; for now, it is ignored.  It
% will somehow specify the positions allowed to float to (here, top, bottom).
\% We keep a separate counter for each FLOATTYPE, which we reset at each
\% chapter-level command.
\let\resetallfloatnos=\empty
\%
\def\dofloat#1,#2,#3,#4\finish{%
  \let\thiscaption=\empty
  \let\thisshortcaption=\empty
  \%
  \% don't lose footnotes inside @float.
  \%
  \% BEWARE: when the floats start float, we have to issue warning whenever an
  \% insert appears inside a float which could possibly float. --kasal, 26may04
  \%
  \startsavinginserts
  \%
  \% We can't be used inside a paragraph.
  \par
  \%
  \vtop\begingroup
    \def\floattype{#1}%
    \def\floatlabel{#2}%
    \def\floatloc{#3}% we do nothing with this yet.
    \%
    \ifx\floattype\empty
      \let\safefloattype=\empty
    \else
      \{
        \% the floattype might have accents or other special characters,
        \% but we need to use it in a control sequence name.
        \indexnofonts
        \turnoffactive
        \xdef\safefloattype{\floattype}%
      \}
    \fi
    \%
    \%
    \% If label is given but no type, we handle that as the empty type.
    \ifx\floatlabel\empty\else
      \percent We want each FLOATTYPE to be numbered separately (Figure 1,
      \% Table 1, Figure 2, ...). (And if no label, no number.)
      \%
      \expandafter\getfloatno\csname\safefloattype floatno\endcsname
      \global\advance\floatno by 1
      \%
      \%
      \% This magic value for \lastsection is output by \setref as the
      \% XREFLABEL-title value. \xrefX uses it to distinguish float
      \% labels (which have a completely different output format) from
\% node and anchor labels. And \xrefdef uses it to construct the
\% lists of floats.
\%
\edef\lastsection{\floatmagic=\safefloattype}\%
\setref{\floatlabel}{Yfloat}\%
\}%
\}%
\% start with \parskip glue, I guess.
\vskip\parskip
\%
\% Don’t suppress indentation if a float happens to start a section.
\restorefirstparagraphindent
\}
\%
we have these possibilities:
\%
@float Foo,lbl & @caption{Cap}: Foo 1.1: Cap
\%
@float Foo,lbl & no caption: Foo 1.1
\%
@float Foo & @caption{Cap}: Foo: Cap
\%
@float Foo & no caption: Foo
\%
@float ,lbl & Caption{Cap}: 1.1: Cap
\%
@float ,lbl & no caption: 1.1
\%
@float & @caption{Cap}: Cap
\%
@float & no caption:
\%
\edef\Efloat{\%
\let\floatident = \empty
\%
\% In all cases, if we have a float type, it comes first.
\ifeq{\floattype}\empty\else \def\floatident{\floattype}\fi
\%
\% If we have an xref label, the number comes next.
\ifeq{\floatlabel}\empty\else\def\floatident{\floattype}\fi
\%
\% if also had float type, need tie first.
\appendtomacro\floatident{\tie}\%
\fi
\%
\% the number.
\appendtomacro\floatident{\chaplevelprefixthe\floatno}\%
\fi
\%
\% Start the printed caption with what we’ve constructed in
\% \floatident, but keep it separate; we need \floatident again.
\let\captionline = \floatident
\%
\ifeq{\thiscaption}\empty\else
\ifeq{\floatident}\empty\else
\appendtomacro\captionline{: }\%
\% had ident, so need a colon between
\fi
\fi
\checkinserts
\def\appendtomacro#1#2{% 
\expandafter\def\expandafter#1\expandafter{#1#2}%
}
\def\caption{|docaption|thiscaption}
\def\shortcaption{|docaption|thisshortcaption}
\def|docaption{|checkenv\float|bgroup|scannargetxt|defcaption}
\def|defcaption#1#2{|egroup|def#1[#2]}

% The parameter is the control sequence identifying the counter we are
% going to use. Create it if it doesn't exist and assign it to \floatno.
\def|getfloatno#1{%
\fx#1\relax
% Haven't seen this figure type before.
\csname newcount|endcsname #1\endcsname%
%
% Remember to reset this floatno at the next chap.
\expandafter\gdef\expandafter\resetallfloatnos\expandafter{esetallfloatnos #1=0 }%
%i
\def\floatno#1%
}

% \setref calls this to get the XREFLABEL-snt value. We want an @xref
% to the FLOATLABEL to expand to "Figure 3.1". We call \setref when we
% first read the @float command.
%
\def|Yfloat{|floattype|atie |chaplevelprefix|the|floatno}%

% Magic string used for the XREFLABEL-title value, so \xrefX can
% distinguish floats from other xref types.
\def|floatmagic{!!float!!}

% #1 is the control sequence we are passed; we expand into a conditional
% which is true if #1 represents a float ref. That is, the magic
% \lastsection value which we \setref above.
%
\iffloat#1\doiffloat#1==\finish%
%
% #1 is (maybe) the \floatmagic string. If so, #2 will be the
% (safe) float type for this float. We set \iffloattype to #2.
\def\doiffloat#1=#2=#3\finish{%  
\def\temp{#1}  
\def\iffloattype{#2}  
\ifx\temp\floatmagic  
}%  
% @listoffloats FLOATTYPE - print a list of floats like a table of contents.  
%  
\parsearg\def\listoffloats{%  
\def\floattype{#1}% floattype  
%  
% the floattype might have accents or other special characters,  
% but we need to use it in a control sequence name.  
\indexnofonts  
\turnoffactive  
\xdef\safefloattype{\floattype}%  
}%  
%  
% \xrdef saves the floats as a \do-list in \floatlistSAFEFLOATTYPE.  
\expandafter\ifx\csname floatlist\safefloattype\endcsname \relax  
\ifhavexrefs  
% if the user said @listoffloats foo but never @float foo.  
\message{\linenumber No `\safefloattype' floats to list.}%  
\fi  
\else  
\begingroup  
\leftskip=\tocindent  % indent these entries like a toc  
\let\do=\listoffloatsdo  
\csname floatlist\safefloattype\endcsname  
\endgroup  
\fi  
}%  
% This is called on each entry in a list of floats. We're passed the  
% xref label, in the form LABEL-title, which is how we save it in the  
% aux file. We strip off the -title and look up \XRLABEL-lof, which  
% has the text we're supposed to typeset here.  
%  
% Figures without xref labels will not be included in the list (since  
% they won't appear in the aux file).  
%  
\def\listoffloatsdo#1{\listoffloatsdoentry#1\finish}  
\def\listoffloatsdoentry#1-title\finish{%  
% Can't fully expand XR#1-lof because it can contain anything. Just  
% pass the control sequence. On the other hand, XR#1-pg is just the  
% page number, and we want to fully expand that so we can get a link  
% in pdf output.
\toksA = \expandafter{\csname XR#1-lof\endcsname} %
% use the same \entry macro we use to generate the TOC and index.
\edef\writeentry\noexpand\entry{\the\toksA}{\csname XR#1-pg\endcsname}} %
\writeentry
}}

\message{localization,}

% For single-language documents, @documentlanguage is usually given very % early, just after @documentencoding. Single argument is the language % (de) or locale (de_DE) abbreviation.
%
%
\catcode\_=\active
\globaldefs=1
\parseargdef\documentlanguage\begingroup
\let_=\normalunderscore % normal _ character for filenames
\tex % read txi-???.tex file in plain TeX.
% Read the file by the name they passed if it exists.
\openin 1 txi-#1.tex
\ifeof 1
\documentlanguagetrywithoutunderscore{#1_\finish} %
\else
\globaldefs = 1 % everything in the txi-LL files needs to persist
\input txi-#1.tex
\fi
\closein 1
\endgroup % end raw TeX
\endgroup}
%
% If they passed de_DE, and txi-de_DE.tex doesn't exist, % try txi-de.tex.
%
\gdef\documentlanguagetrywithoutunderscore#1_#2\finish{%
\openin 1 txi-#1.tex
\ifeof 1
\errhelp = \nolanghelp
\errmessage{Cannot read language file txi-#1.tex}%
\else
\globaldefs = 1 % everything in the txi-LL files needs to persist
\input txi-#1.tex
\fi
\closein 1
}
}% end of special _ catcode
%
The given language definition file cannot be found or is empty. Maybe you need to install it? Putting it in the current directory should work if nowhere else does.}

% This macro is called from txi-??\tex files; the first argument is the language name to set (without the \"lang@\" prefix), the second and third args are \{left,right\} hyphenmin.
%
% The language names to pass are determined when the format is built.
% See the etex.log file created at that time, e.g.,
% /usr/local/texlive/2008/texmf-var/web2c/pdftex/etex.log.
%
% With TeX Live 2008, etex now includes hyphenation patterns for all available languages. This means we can support hyphenation in \TeXinfo, at least to some extent. (This still doesn’t solve the accented characters problem.)
%
\catcode`@=11
\def\txisetlanguage#1#2#3{%
% do not set the language if the name is undefined in the current TeX.
\expandafter\ifx\csname lang@#1\endcsname \relax
  \message{no patterns for #1}%
\else
  \global\language = \csname lang@#1\endcsname
\fi
% but there is no harm in adjusting the hyphenmin values regardless.
\global\lefthyphenmin = #2\relax
\global\righthyphenmin = #3\relax
}

% Helpers for encodings.
% Set the catcode of characters 128 through 255 to the specified number.
%
\def\setnonasciicharscatcode#1{%
\count255=128
\loop\ifnum\count255<256
  \global\catcode\count255=#1\relax
  \advance\count255 by 1
\repeat
}

\def\setnonasciicharscatcodenonglobal#1{%
\count255=128
\loop\ifnum\count255<256
  \catcode\count255=#1\relax
  \advance\count255 by 1
\repeat
}
\documentencoding{\par} % Encoding being declared for the document.\par % Supported encodings: names converted to tokens in order to be able % to compare them with \ifx.\par % \\def\ascii{\csname US-ASCII.enc\endcsname}\par % \def\latnine{\csname ISO-8859-15.enc\endcsname}\par % \def\latone{\csname ISO-8859-1.enc\endcsname}\par % \def\lattwo{\csname ISO-8859-2.enc\endcsname}\par % \def\utfeight{\csname UTF-8.enc\endcsname}\par % "utfx \ifx \ascii \else % % \lattwochardefs % \et \ifx \latnine \else \fi \fi \ifx \latone \else \fi \else % % \utfeightchardefs % \fi % \message{Unknown document encoding #1, ignoring.}% \fi %\fi %\fi %\fi %\fi % % A message to be logged when using a character that isn't available % the default font encoding (OT1).%
\def\missingcharmsg#1{\message{Character missing in OT1 encoding: #1.}}

% Take account of \c (plain) vs. \, (Texinfo) difference.
def\cedilla#1{\ifx\c\ptexc\c{#1}\else\,#1\fi}

% First, make active non-ASCII characters in order for them to be
% correctly categorized when TeX reads the replacement text of
% macros containing the character definitions.
\setnonasciicharscatcode\active
%
% Latin1 (ISO-8859-1) character definitions.
def\latonechardefs{%
def\^a{\tie}
def\^a1{\exclamdown}
def\^a2{\missingcharmsg{CENT SIGN}}
def\^a3{\pounds}
def\^a4{\missingcharmsg{CURRENCY SIGN}}
def\^a5{\missingcharmsg{YEN SIGN}}
def\^a6{\missingcharmsg{BROKEN BAR}}
def\^a7{\$}
def\^a8{"{}}
def\^a9{\copyright}
def\^aa{\ordf}
def\^ab{\guillemetleft}
def\^ac{\$\lnot$}
def\^ad{\-}
def\^ae{\registeredsymbol}
def\^af{\ %=}
%
def\^b{\textdegree}
def\^b1{\$\pm$}
def\^b2{\$\pm2$}
def\^b3{\$\pm3$}
def\^b4{\$\\}
def\^b5{\$\mu$}
def\^b6{\$P$}
%
def\^b7{\$\.,$}
def\^b8{\cedilla\ }
def\^b9{\$\,1$}
def\^ba{\ordm}
%
def\^bb{\guillemetright}
def\^bc{\$\overline4$}
def\^bd{\$\overline2$}
def\^be{\$3\overline4$}
def\^bf{\questiondown}
%
% UTF-8 character definitions.
%
% This code to support UTF-8 is based on LaTeX's utf8.def, with some
% changes for Texinfo conventions. It is included here under the GPL by
% permission from Frank Mittelbach and the LaTeX team.
%
\newcount\countUTFx
\newcount\countUTFy
\newcount\countUTFz

\gdef\UTFviiiTwoOctets#1#2{\expandafter
  \UTFviiiDefined\csname u8:#1\string #2\endcsname}
%
\gdef\UTFviiiThreeOctets#1#2#3{\expandafter
  \UTFviiiDefined\csname u8:#1\string #2\string #3\endcsname}
%
\gdef\UTFviiiFourOctets#1#2#3#4{\expandafter
  \UTFviiiDefined\csname u8:#1\string #2\string #3\string #4\endcsname}

\gdef\UTFviiiDefined#1{%
  \ifx #1\relax
    \message{\linenumber Unicode char \string #1 not defined for Texinfo}%
  \else
    \expandafter #1%
  \fi
}

\begingroup
\catcode`~13
\catcode`"12
\def\UTFviiiLoop{%
  \global\catcode\countUTFx\active
  \uccode`~\countUTFx
  \uppercase\expandafter{\UTFviiiTmp}%
  \advance\countUTFx by 1
  \ifnum\countUTFx < \countUTFy
    \expandafter\UTFviiiLoop
  \fi}

\countUTFx = "C2
\countUTFy = "E0
\def\UTFviiiTmp{%
  \def~{\noexpand\UTFviiiTwoOctets\string~} }
\UTFviiiLoop

\countUTFx = "E0
\countUTFy = "F0
\def\UTFviiiTmp{%
  \def~{\noexpand\UTFviiiThreeOctets\string~} }
\UTFviiiLoop
\countUTFx = "F0
\countUTFy = "F4
\def\UTFviiiTmp{%
  \def~{\noexpand\UTFviiiFourOctets\string~}}
\UTFviiiLoop
\endgroup
\begingroup
\catcode`\"=12
\catcode`\<=12
\catcode`\.=12
\catcode`\,=12
\catcode`\;=12
\catcode`\!=12
\catcode`\~=13
\gdef\DeclareUnicodeCharacter#1#2{%
  \countUTFz = "#1\relax
  \%\wlog{\space\space defining Unicode char U+\#1 (decimal \the\countUTFz)}%
  \begingroup
  \parseXMLCharref
  \def\UTFviiiTwoOctets##1##2{%
    \csname u8:\string ##1\string ##2\endcsname}%
  \def\UTFviiiThreeOctets##1##2##3{%
    \csname u8:\string ##1\string ##2\string ##3\endcsname}%
  \def\UTFviiiFourOctets##1##2##3##4{%
    \csname u8:\string ##1\string ##2\string ##3\string ##4\endcsname}%
  \expandafter\expandafter\expandafter\expandafter
  \expandafter\expandafter\expandafter\expandafter
  \gdef\UTFviiiTmp{#2}%
  \endgroup}
\gdef\parseXMLCharref{%
  \ifnum\countUTFz < "A0\relax
    \errhelp = \EMsimple
    \errmessage{Cannot define Unicode char value < 00A0}%
  \else\ifnum\countUTFz < "800\relax
    \expandafter\expandafter\expandafter\expandafter
    \expandafter\expandafter\expandafter\expandafter
    \gdef\UTFviiiTmp[#2]%
  \endgroup
  \gdef\parseXMLCharref{%
  \ifnum\countUTFz < "8000\relax
    \parseUTFviiiA,%
    \parseUTFviiiB C\UTFviiiTwoOctets,,%
  \else\ifnum\countUTFz < "100000\relax
    \parseUTFviiiA;,
    \parseUTFviiiA,%
    \parseUTFviiiB E\UTFviiiThreeOctets,{;}%}
  \else
    \parseUTFviiiA;
    \parseUTFviiiA,%
    \parseUTFviiiA!
\parseUTFviiiB \UTFviiiFourOctets.{!,;}\fi\fi\fi\fi
\gdef\parseUTFviiiA#1{\countUTFx = \countUTFz
\divide\countUTFz by 64
\countUTFy = \countUTFz
\multiply\countUTFz by 64
\advance\countUTFx by -\countUTFz
\advance\countUTFx by 128
\uccode `#1\countUTFx
\countUTFz = \countUTFy}
\gdef\parseUTFviiiB#1#2#3#4{\advance\countUTFz by "#10\relax
\uccode `#3\countUTFz
\uppercase{\gdef\UTFviiiTmp{#2#3#4}}}
\endgroup
\def\utfeightchardefs{%
\DeclareUnicodeCharacter{00A0}{\tie}
\DeclareUnicodeCharacter{00A1}{\exclamdown}
\DeclareUnicodeCharacter{00A3}{\pounds}
\DeclareUnicodeCharacter{00A8}{"{ }}
\DeclareUnicodeCharacter{00A9}{\copyright}
\DeclareUnicodeCharacter{00AA}{\ordf}
\DeclareUnicodeCharacter{00AB}{\guillemetleft}
\DeclareUnicodeCharacter{00AD}{\-}
\DeclareUnicodeCharacter{00AE}{\registeredsymbol}
\DeclareUnicodeCharacter{00AF}{\={ }}
\DeclareUnicodeCharacter{00B0}{\ringaccent{ }}
\DeclareUnicodeCharacter{00B4}{\('{ }}
\DeclareUnicodeCharacter{00B8}{\cedilla{ }}
\DeclareUnicodeCharacter{00BA}{\ordm}
\DeclareUnicodeCharacter{00BB}{\guillemetright}
\DeclareUnicodeCharacter{00BF}{\questiondown}
\DeclareUnicodeCharacter{00C0}{\^A}
\DeclareUnicodeCharacter{00C1}{\^A}
\DeclareUnicodeCharacter{00C2}{\^A}
\DeclareUnicodeCharacter{00C3}{\-A}
\DeclareUnicodeCharacter{00C4}{\^A}
\DeclareUnicodeCharacter{00C5}{\AA}
\DeclareUnicodeCharacter{00C6}{\AE}
\DeclareUnicodeCharacter{00C7}{\cedilla{C}}
\DeclareUnicodeCharacter{00C8}{\^E}
\chapheadingskip = 15pt plus 4pt minus 2pt
\secheadingskip = 12pt plus 3pt minus 2pt
\subsecheadingskip = 9pt plus 2pt minus 2pt

% Prevent underfull vbox error messages.
\vbadness = 10000

% Don't be very finicky about underfull hboxes, either.
\hbadness = 6666

% Following George Bush, get rid of widows and orphans.
\widowpenalty=10000
\clubpenalty=10000

% Use TeX 3.0's \emergencystretch to help line breaking, but if we're
% using an old version of TeX, don't do anything. We want the amount of
% stretch added to depend on the line length, hence the dependence on
% \hsize. We call this whenever the paper size is set.
%\def\setemergencystretch{\%\ifx\emergencystretch\thisisundefined\%
%\emergencystretch = .15\hsize\%\else
%\emergencystretch = .15\hsize\%
%\fi
%}
%
% Parameters in order: 1) textheight; 2) textwidth;
% 3) voffset; 4) hoffset; 5) binding offset; 6) topskip;
% 7) physical page height; 8) physical page width.
%
% We also call \setleading{\textleading}, so the caller should define
% \textleading. The caller should also set \parskip.
%\def\internalpagesizes#1#2#3#4#5#6#7#8{\%
#voffset = #3\relax
#topskip = #6\relax
#splittopskip = #topskip
%
#vsize = #1\relax
#advance#vsize by #topskip
#outervsize = #vsize
#advance#outervsize by 2#topandbottommargin
#pageheight = #vsize
%
#hsize = #2\relax
#outerhsize = #hsize
% Use @smallerbook to reset parameters for 6x9 trim size.
% (Just testing, parameters still in flux.)
\def\smallerbook{{\globaldefs = 1
  \parskip = 1.5pt plus 1pt
  \textleading = 12pt
%
  \internalpagesizes{7.4in}{4.8in}%
    {-.2in}{-.4in}%
    {0pt}{14pt}%
    {9in}{6in}%
%
  \lispnarrowing = 0.25in
  \tolerance = 700
  \hfuzz = 1pt
  \contentsrightmargin = 0pt
  \defbodyindent = .4cm
}}
%
% Use @afourpaper to print on European A4 paper.
\def\afourpaper{{\globaldefs = 1
  \parskip = 3pt plus 2pt minus 1pt
  \textleading = 13.2pt
%
  % Double-side printing via postscript on Laserjet 4050
  % prints double-sided nicely when \bindingoffset=10mm and \hoffset=-6mm.
  % To change the settings for a different printer or situation, adjust
  % \normaloffset until the front-side and back-side texts align. Then
  % do the same for \bindingoffset. You can set these for testing in
  % your texinfo source file like this:
  % @tex
  %  \global\normaloffset = -6mm
  %  \global\bindingoffset = 10mm
  % @end tex
  \internalpagesizes{673.2pt}{160mm}% that's 51 lines
    {\voffset}{\hoffset}%
    {\bindingoffset}{44pt}%
    {297mm}{210mm}%
%
  \tolerance = 700
  \hfuzz = 1pt
  \contentsrightmargin = 0pt
  \defbodyindent = 5mm
}}
%
% Use @afivepaper to print on European A5 paper.
% From romildo@urano.iceb.ufop.br, 2 July 2000.
He also recommends making @example and @lisp be small.
\def\afivepaper{{\globaldefs = 1
\parskip = 2pt plus 1pt minus 0.1pt
\textleading = 12.5pt
%
\internalpagesizes{160mm}{120mm}%
{\woffset}{\hoffset}%
{\bindingoffset}{8pt}%
{210mm}{148mm}%
%
\lispnarrowing = 0.2in
\tolerance = 800
\hfuzz = 1.2pt
\contentsrightmargin = 0pt
\defbodyindent = 2mm
\tableindent = 12mm
}}

% A specific text layout, 24x15cm overall, intended for A4 paper.
\def\afourlatex{{\globaldefs = 1
\afourpaper
\internalpagesizes{237mm}{150mm}%
{\woffset}{4.6mm}%
{\bindingoffset}{7mm}%
{297mm}{210mm}%
%
% Must explicitly reset to 0 because we call \afourpaper.
\globaldefs = 0
}}

% Use @afourwide to print on A4 paper in landscape format.
\def\afourwide{{\globaldefs = 1
\afourpaper
\internalpagesizes{241mm}{165mm}%
{\woffset}{-2.95mm}%
{\bindingoffset}{7mm}%
{297mm}{210mm}%
\globaldefs = 0
}}

% @pagesizes TEXTHEIGHT[,TEXTWIDTH]
% Perhaps we should allow setting the margins, \topskip, \parskip,
% and/or leading, also. Or perhaps we should compute them somehow.
%\parseargdef\pagesizes{\pagesizesyyy #1,,\finish}
\def\pagesizesyyy#1,#2,#3\finish{{%
\setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt \hspace=#2\relax \fi
\globaldefs = 1
}
% parskip = 3pt plus 2pt minus 1pt
% setleading {\textleading} %
%
\dimen0 = #1 \relax
\advance\dimen0 by \voffset
%
\dimen2 = \hsize
\advance\dimen2 by \normaloffset
%
\internalpagesizes{#1}{\hsize} %
{\voffset}{\normaloffset} %
{\bindingoffset}{44pt} %
{\dimen0}{\dimen2} %
}
%
% Set default to letter.
%
\letterpaper

\message{and turning on texinfo input format.}
\def^^L{\par} % remove \outer, so ^L can appear in an @comment
%
% DEL is a comment character, in case @c does not suffice.
\catcode`\^^? = 14

% Define macros to output various characters with catcode for normal text.
\catcode`\"=\other \def\normaldoublequote{"}
\catcode`\$=\other \def\normaldollar{$} %$ font-lock fix
\catcode`\+=\other \def\normalplus{+}
\catcode`\<=\other \def\normalless{<}
\catcode`\>=\other \def\normalgreater{>}
\catcode`\^
\other \def\normalcaret^{}
\catcode`\_=\other \def\normalunderscore{_}
\catcode`\="\other \def\normalverticalbar{|}
\catcode`\~\other \def\normaltilde{~}

% This macro is used to make a character print one way in \tt
% (where it can probably be output as-is), and another way in other fonts,
% where something hairier probably needs to be done.
%
% #1 is what to print if we are indeed using \tt; #2 is what to print
% otherwise. Since all the Computer Modern typewriter fonts have zero
% interword stretch (and shrink), and it is reasonable to expect all
% typewriter fonts to have this, we can check that font parameter.
%
\def\ifusingtt#1#2{\ifdim \fontdimen3\font=0pt #1\else #2\fi}

% Same as above, but check for italic font. Actually this also catches
% non-italic slanted fonts since it is impossible to distinguish them from
% italic fonts. But since this is only used by $ and it uses \sl anyway
% this is not a problem.
\def\ifusingit#1#2{\ifdim \fontdimen1\font>0pt #1\else #2\fi}

% Turn off all special characters except @
% (and those which the user can use as if they were ordinary).
% Most of these we simply print from the \tt font, but for some, we can
% use math or other variants that look better in normal text.
\catcode`\^=\active
\def\activedoublequote{\tt\char34}
\let"=\activedoublequote
\catcode`~=\active
\def~{\tt\char126}
\chardef\hat=`\^{
\catcode`\_=\active
\def\_{{\tt\char126}}
\chardef \<=`\<
\catcode`\<_=\active
\def<{{\tt \char126}}
\chardef \>=`\>
\catcode`\>=\active
\def>{{\tt \char126}}
\catcode`+=\active
\def+{{\tt \char 43}}
\catcode`\$=\active
\def${{\tt \char 110}}

% If a .fmt file is being used, characters that might appear in a file
% name cannot be active until we have parsed the command line.
% So turn them off again, and have \everyjob (or @setfilename) turn them on.
% \otherifyactive is called near the end of this file.
\def\otherifyactive{\catcode`+=\other \catcode`\_=\other}

% Used sometimes to turn off (effectively) the active characters even after
\def\turnoffactive{\normalturnoffactive \otherbackslash}
\catcode`@=0

% \backslashcurfont outputs one backslash character in current font, % as in \char`\.
\global\chardef\backslashcurfont="\%
\global\let\rawbackslashxx=\backslashcurfont % let existing .??s files work

% \realbackslash is an actual character `\ with catcode other, and % \doublebackslash is two of them (for the pdf outlines).
{\catcode`\=\other \gdef@realbackslash{}} \gdef@doublebackslash{\}

% In texinfo, backslash is an active character; it prints the backslash % in fixed width font.
\catcode`\=\active % @ for escape char from now on.

% The story here is that in math mode, the \char of \backslashcurfont
% ends up printing the roman \ from the math symbol font (because \char
% in math mode uses the \mathcode, and plain.tex sets
% \mathcode`\="026E). It seems better for \backslashchar{} to always %
% print a typewriter backslash, hence we use an explicit \mathchar,
% which is the decimal equivalent of "715c (class 7, e.g., use \fam;
% ignored family value; char position "5C). We can't use " for the %
% usual hex value because it has already been made active.
@def@normalbackslash{[ [ @tt @ifmmode @mathchar29020 @else @backslashcurfont @fi ] ]}
@let@backslashchar = @normalbackslash % \backslashchar{} is for user documents.

% On startup, @fixbackslash assigns:
% @let \ = @normalbackslash
% \rawbackslash defines an active \ to do \backslashcurfont.
% \otherbackslash defines an active \ to be a literal `\ character with %
% catcode other. We switch back and forth between these.
@gdef@rawbackslash[@let=@@backslashcurfont]
@gdef@otherbackslash[@let=@@realbackslash]

% Same as @turnoffactive except outputs \ as {\tt\char`\} instead of %
% the literal character `\'. Also revert - to its normal character, in %
case the active - from code has slipped in.
{ @catcode`- = @active
@gdef@normalturnoffactive{ %
@let=@@normaldash
@let"=@@normaldoublequote
% Make _ and + \ other characters, temporarily.
% This is canceled by @fixbackslash.
@otherifyactive

% If a .fnt file is being used, we don't want the `\input texinfo' to show up.
% That is what `eatinput' is for; after that, the `\' should revert to printing
% a backslash.
%
@gdef@eatinput input texinfo{ @fixbackslash}
@global@let\ = @eatinput

% On the other hand, perhaps the file did not have a `\input texinfo'. Then
% the first `\ in the file would cause an error. This macro tries to fix
% that, assuming it is called before the first `\ could plausibly occur.
% Also turn back on active characters that might appear in the input
% file name, in case not using a pre-dumped format.
%
@gdef@fixbackslash{%
@if\@eatinput @let\ = @normalbackslash @fi
@catcode`+=@active
@catcode`_=@active
}

% Say @foo, not \foo, in error messages.
@escapechar = `@@

% These (along with & and #) are made active for url-breaking, so need
% active definitions as the normal characters.
@def@normaldot{.}
@def@normalquest{?}
@def@normalslash{/}

% These look ok in all fonts, so just make them not special.
% @hashchar{ } gets its own user-level command, because of #line.
@catcode`@& = @other @def@normalamp{&}
@catcode`@# = @other @def@normalhash{#}
@catcode`@% = @other @def@normalpercent{%}

@let @hashchar = @normalhash

@c Finally, make ` and ' active, so that txicodequoteundirected and
txicodequotebacktick work right in, e.g., @w{ @code{`foo'}}. If we
don't make ` and ' active, @code will not get them as active chars.
@c Do this last of all since we use ` in the previous @catcode assignments.
@catcode`@`==@active
@catcode`@`=@active
@markupsetuplqdefault
@markupsetuprqdefault

@c Local variables:
@c eval: (add-hook 'write-file-hooks 'time-stamp)
@c page-delimiter: "^\\message"
@c time-stamp-start: "def\\texinfoversion{"
@c time-stamp-format: "%:y-%02m-%02d.%02H"
@c time-stamp-end: ")"
@c End:
@c vim:sw=2:

@ignore
  arch-tag: e1b36e32-c96e-4135-a41a-0b2efa2ea115
@end ignore

1.95 libffi/msvcc.sh 3.2.1
1.95.1 Available under license:

# ***** BEGIN LICENSE BLOCK *****
# Version: MPL 1.1/GPL 2.0/LGPL 2.1
#
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# WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
# for the specific language governing rights and limitations under the
# License.
#
# The Original Code is the MSVC wrappificator.
1.96 libgcc1 1:8.2.0-1ubuntu2~18.04

1.96.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, Java, Objective-C, Objective-C++, and Treelang compilers, documentation, and support libraries. In addition, Debian provides the GNU Pascal compiler in the same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
http://gnu-pascal.de/alpha/ (for GNU Pascal)
http://dgcc.sourceforge.net/ (for D)

The current gcc-4.4 source package is taken from the SVN gcc-4_4-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language        Compiler package        Library package        Documentation
------------------------------------------------------------------------
Ada            gnat-4.4          libgnat-4.4        gnat-4.4-doc
C              gcc-4.4                              gcc-4.4-doc
C++            g++-4.4           libstdc++6         libstdc++6-4.4-doc
Fortran 95     gfortran-4.4      libgfortran3       gfortran-4.4-doc
Java           gcj-4.4           libgcj10           libgcj-doc
Objective C    gobjc-4.4         libobjc2
Objective C++  gobjc++-4.4

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-4.4-dbg</td>
<td>libstdc++6-4.4-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>libgcj10-src</td>
<td>libgcj10-dev</td>
<td>libgcj10-dbg</td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4   GCC intrinsics (platform-dependent)
gcc-4.4-base      Base files common to all compilers
gcc-4.4-soft-float Software floating point (ARM only)
gcc-4.4-source   The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn4.4   GNAT version library
libgnatprj-dev, libgnatprj4.4   GNAT Project Manager library

C:
cpp-4.4, cpp-4.4-doc   GNU C Preprocessor
libmudflap0-dev, libmudflap0   Library for instrumenting pointers
libssp0-dev, libssp0   GCC stack smashing protection library
fixincludes         Fix non-ANSI header files
protoize            Create/remove ANSI prototypes from C code

Java:
gij                The Java bytecode interpreter and VM
libgcj-common   Common files for the Java run-time
libgcj10-awt      The Abstract Windowing Toolkit
libgcj10-jar      Java ARChive for the Java run-time

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library

Biarch support: On some 64-bit platforms which can also run 32-bit code,
Debian provides additional packages containing 32-bit versions of some
libraries. These packages have names beginning with 'lib32' instead of
'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
- libdecmumber
- libgomp
- libssp
- libstdc++-v3
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Version 3.1, 31 March 2009

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This package was debianized by Matthias Klose <doko@debian.org> on Mon, 5 Jul 2004 21:29:57 +0200

Mudflap is part of GCC.

Authors: Frank Ch. Eigler <fche@redhat.com>, Graydon Hoare <graydon@redhat.com>

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#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
{
 namespace security
{
  class Permission;
  class PermissionCollection;
 }
}

class java::security::Permission : public ::java::lang::Object
{

public:
 Permission(::java::lang::String *);
 virtual void checkGuard(::java::lang::Object *);
 virtual jboolean implies(::java::security::Permission *) = 0;
 virtual jboolean equals(::java::lang::Object *) = 0;
 virtual jint hashCode() = 0;
 virtual ::java::lang::String * getName();
 virtual ::java::lang::String * getActions() = 0;
 virtual ::java::security::PermissionCollection * newPermissionCollection();
 virtual ::java::lang::String * toString();

private:
  static const jlong serialVersionUID = -563657022231596674LL;
  ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;

public:
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* m4/ax_func_which_gethostbyname_r.m4

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02111-1307 USA. */

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

  private static final String NAME = "copyright";
  private static final String HEADER = "Copyright:";

  public String getName() {
    return NAME;
  }

  public boolean inField() {
    return true;
  }

  public boolean inConstructor() {
    return true;
  }
}
public boolean inMethod() {
return true;
}
public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");

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2471


/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 */
* <p>The most important method in this class is <code>implies</code>. This checks whether if one has this permission, then the specified permission is also implied. As a conceptual example, consider the permissions "Read All Files" and "Read File foo". The permission "Read All Files" implies that the caller has permission to read the file foo.
* 
* <p><code>Permission</code>'s must be immutable - do not change their state after creation.
* 
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
* /

```java
public abstract class Permission implements Guard, Serializable {

    /**
     * Compatible with JDK 1.1+.
     */

    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */

    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */

    public Permission(String name) {
        this.name = name;
    }

    /**
     * This method implements the <code>Guard</code> interface for this class.
     * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
     *
     * @param obj the <code>Object</code> being guarded - ignored by this class
     */

```
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
* *
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
* *
* @param obj the object to compare to
* @return true if perm is implied by this
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
* *
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>.
* *
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this `<code>Permission</code>` as a `<code>String</code>`. The string should be in canonical order, for example, both `<code>new FilePermission(f, "write,read")</code>` and `<code>new FilePermission(f, "read,write")</code>` have the action list "read,write".

* @return the action list for this `<code>Permission</code>`

```java
public abstract String getActions();
```

/**
 * This method returns an empty `<code>PermissionCollection</code>` object that can store permissions of this type, or `<code>null</code>` if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate `<code>implies</code>`.  

* @return a new `<code>PermissionCollection</code>`

```java
public PermissionCollection newPermissionCollection() {
    return null;
}
```

/**
 * This method returns a `<code>String</code>` representation of this `<code>Permission</code>` object. This is in the format: `<code>('+ getClass().getName() + ' ' + getName() + ' ' + getActions + ')'</code>.

* @return this object as a `<code>String</code>`

```java
public String toString() {
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');

    string = string.append(')');
```
return string.toString();
}
} // class Permission

// Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * *
 * @version 0.0
public interface Permission {

    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     * @param perm The permission to check for equality
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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1 [java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ

ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode

()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V

! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
'&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lan
g/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilde
r
:
>:?@append"(C)Lgnu/java/lang/CPStringBuilder;
BDCgetClass()Ljava/lang/Class;
FHGjava/lang/Class45
:I?K3(Ljava/lang/String;);Lgnu/java/lang/CPStringBuilder;
H
N65P
RTSjava/lang/String01
:V95stringL.gnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[]

XM,,*Snop
q ++
..<A012345/*6578,9S:Y<+L+(=L+*AEIL+=L+*LIL+y=L+*MIL+=L+*U*
"*7>GNSKWXZY
ljava/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
SourceFilePermission.java
16/gnu/javasound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javasound/AudioSecurityMa
nager$Permission;RECORDALLENUM$VALUES2[Lgnu/javasound/AudioSecurityManager$Permission;</cinit
>()VCode
<brinit>(Ljava/lang/String;ITV
LineNumberTableLocalVariableTable
thisvalues4)gLnu/javasound/AudioSecurityManager$Permission;
$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/javasound/AudioSecurit
yManager$Permission;
).-S(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/javasound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javasound/AudioSecurityManager
Permission@1@@@
// DO NOT EDIT THIS FILE - it is machine generated.

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);

    public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

    public:
    static ::java::lang::Class class$;
};
#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

/* Automatically generated by Pod::Man 2.16 (Pod::Simple 3.07)

/*
/* Standard preamble:
/*=======================================================================*/
.de Sh /* Subsection heading
.br
.if t .Sp
.ne 5
.PP
\%(\$1)\%R
.PP
..
.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
.fi
..
/* 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\%v\%-1.1\v'1\h'1\p\%-2+\h'1\p\%+\%s0\v'1\v'1\h'1\p'
.ie n \{
  . ds -- \%W-.
  . ds PI pi
  . if (\n\%H=4u)\&(1m=24u) .ds -- \%W'12\u\%(W'12\u\%-\%L" \%diablo 10 pitch
  . if (\n\%H=4u)\&(1m=20u) .ds -- \%W'12\u\%(W'8\u\%-\%L" \%diablo 12 pitch
  . ds L" "
  . ds R" "
  . ds C" "
  . ds C' "
  \"br\}
.el\{
  . ds -- \%(em\%
  . ds PI \%p
  . ds L" "
  .ds L" "
ds R" "
\textbf{\textbackslash b\textbackslash a\textbackslash l}

\textbf{\textbackslash l} Escape single quotes in literal strings from groff's Unicode transform.
\textbf{\textbackslash e} \textbackslash n(.g .ds Aq \{aq
\textbf{\textbackslash e} .ds Aq '
\textbf{\textbackslash l} 'If the F register is turned on, we'll generate index entries on stderr for
\textbf{\textbackslash l} titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
\textbf{\textbackslash l} entries marked with X<> in POD. Of course, you'll have to process the
\textbf{\textbackslash l} output yourself in some meaningful fashion.
\textbf{\textbackslash i}e \textbackslash nF \{
\textbf{\textbackslash d}e IX
\textbf{\textbackslash t}m Index:\$1\t\n\%\t"\$2"
\textbf{\textbackslash .}
\textbf{\textbackslash n}r \% 0
\textbf{\textbackslash n}F
\textbf{\textbackslash l}\
\textbf{\textbackslash .}e IX
\textbf{\textbackslash .}e IX
\textbf{\textbackslash .}e IX
\textbf{\textbackslash l}
\textbf{\textbackslash l}"
\textbf{\textbackslash l} Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
\textbf{\textbackslash l} Fear. Run. Save yourself. No user-serviceable parts.
\textbf{\textbackslash l} \textbf{\textbackslash l} fudge factors for nroff and troff
\textbf{\textbackslash i}f n \{
\textbf{\textbackslash d}s \#H 0
\textbf{\textbackslash d}s \#V .8m
\textbf{\textbackslash d}s \#F .3m
\textbf{\textbackslash d}s \#[ \f1
\textbf{\textbackslash d}s \#] \fP
\textbf{\textbackslash l}\
\textbf{\textbackslash i}f t \{
\textbf{\textbackslash d}s \#H ((1u-\n\n\n\n(\textbackslash n.\textbackslash f.\textbackslash f.\textbackslash %2u))*13m)
\textbf{\textbackslash d}s \#V .6m
\textbf{\textbackslash d}s \#F 0
\textbf{\textbackslash d}s \#[ \&
\textbf{\textbackslash d}s \#] \&
\textbf{\textbackslash l}\
\textbf{\textbackslash l} simple accents for nroff and troff
\textbf{\textbackslash i}f n \{
\textbf{\textbackslash d}s ' \&
\textbf{\textbackslash d}s " \&
\textbf{\textbackslash d}s ^ \&
\textbf{\textbackslash d}s , \&
\textbf{\textbackslash d}s ~ ~
\textbf{\textbackslash d}s /
IX Title "GPL 7"
.TH GPL 7 "2010-01-21" "gcc-4.4.3" "GNU"

"For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents."
.if n .ad 1

.SH "NAME"
gpl - GNU General Public License

.SH "DESCRIPTION"

IX Header "DESCRIPTION"
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\textbf{\textsc{PP}}

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\textbf{\textsc{PP}}

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\textbf{\textsc{PP}}

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\textbf{\textsc{Sh "Terms and Conditions"}}

\textbf{\textsc{IP "0. Definitions."}}

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.IX Item "5. Conveying Modified Source Versions."
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.IX Item "b."
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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_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))

#if defined 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)(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 "_"

/* 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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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, Java, Objective-C, Objective-C++, and Treelang compilers, documentation, and support libraries. In addition, Debian provides the GNU Pascal compiler in the same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
http://gnu-pascal.de/alpha/ (for GNU Pascal)
http://dgcc.sourceforge.net/ (for D)

The current gcc-@BV@ source package is taken from the SVN @SVN_BRANCH@.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-@BV@</td>
<td>libgnat-@BV@</td>
<td>gnat-@BV@-doc</td>
</tr>
<tr>
<td>C</td>
<td>gcc-@BV@</td>
<td>gcc-@BV@-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-@BV@</td>
<td>libstdc++6</td>
<td>libstdc++6-@BV@-doc</td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-@BV@</td>
<td>libgfortran3</td>
<td>gfortran-@BV@-doc</td>
</tr>
<tr>
<td>Java</td>
<td>gcj-@BV@</td>
<td>libgcj10</td>
<td>libgcj-doc</td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-@BV@</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-@BV@</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-@BV@-dbg</td>
<td>libstdc++6-@BV@-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>libgcj10-src</td>
<td>libgcj10-dev</td>
<td>libgcj10-dbgl</td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-@BV@-base Base files common to all compilers
gcc-@BV@-soft-float Software floating point (ARM only)
gcc-@BV@-source The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn@BV@ GNAT version library
libgnatprj-dev, libgnatprj@BV@ GNAT Project Manager library

C:
cpp-@BV@, cpp-@BV@-doc GNU C Preprocessor
libmudflap0-dev, libmudflap0 Library for instrumenting pointers
libssp0-dev, libssp0 GCC stack smashing protection library
fixincludes Fix non-ANSI header files
protoize Create/remove ANSI prototypes from C code

Java:
gij The Java bytecode interpreter and VM
libgcj-common Common files for the Java run-time
libgcj10-awt The Abstract Windowing Toolkit
libgcj10-jar Java ARchive for the Java run-time

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libdecnumber
- librcc
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libfortran
- The libgnat-@BV@ Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.

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Version 3.1, 31 March 2009

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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 Petersen(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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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
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
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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.

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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@enumerate 0
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@enumerate
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DRuntime: Runtime Library for the D Programming Language

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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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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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Version 3.1, 31 March 2009

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\emph{%(tool)s, The %(name)s Development Environment}

\emph{%(edition)s}

\begin{DUlineblock}{0em}
\item Version %(version)s
\item Date: %date\s
\end{DUlineblock}
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   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

AdaCore

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*/
#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"u", (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), ".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 "_

/* 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

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
"
" Standard preamble:
=" Vertically 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
.. .fi
.. .. " 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-\n.. .ds C+ C\'-=.1v\'h'-1p\'s-2+\'h'-1p'+\s0\'v'.1v\'h'-1p'
.. .ie n \{
.. .    .ds -- \(*W-
.. .    .ds PI pi
.. .    .if \(\(\H=4u\)&(\1m=24u) .ds -- \(\"W\'h'-12u\)/(\"W\'h'-12u\'-\"\" diablo 10 pitch
.. .    .if \(\(\H=4u\)&(\1m=20u) .ds -- \(\"W\'h'-12u\)/(\"W\'h'-8u\'-\"\" diablo 12 pitch
.. .    .ds L" "
.. .    .ds R" "
.. .    .ds C" "
.. .    .ds C' "
"br\}
.. .el\}"
Escape single quotes in literal strings from groff's Unicode transform.

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'.

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

...
\" simple accents for nroff and troff
.if n \{
  .ds ' \&
  .ds ` \&
  .ds ^ \&
  .ds , \&
  .ds ~ ~
  .ds / \&
}.
.if t \{
  .ds ' \&
  .ds ` \&
  .ds ^ \&
  .ds , \&
  .ds ~ ~
  .ds / \&
}
\" corrections for vroff
.if v \.ds ~ \&
.if v \.ds ^ \&
.v for low resolution devices (crt and lpr)
.if \n(H)>23 .if \n(V>19 \}
\}
  .ds : e
  .ds 8 ss
  .ds o a
  .ds d- d\(ga
  .ds D- D\(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 l
\nh
\SH "NAME"

\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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\Ve
\SS "Preamble"
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@end enumerate

@end enumerate

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free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@example
one line to give the program's name and a brief idea of what it does.

Copyright (C) [year] [name of author]

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it under the terms of the GNU General Public License as published by
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along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@example
program Copyright (C) [year] [name of author]

This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{show c} should show
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use an `about box'.

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@c man end

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--------------------------------------------------------------------------

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

#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# 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
        sys.stderr.write (string + '
')
        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',
    'lt-options.m4',
    'lt-sugar.m4',
    'lt-version.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

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 + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '([Cc]\copyright'  
    '[Cc]\copyright+t\entrant{[Cc]}\]'  
    '[[Cc]\copyright+s+\%s'  
    '[[Cc]\copyright+s+&copy;'  
    '[[Cc]\copyright+s+@copyright\]'  
    'copyright = u''  
    '@set\s+s+copyright\[w-\]+'  
    # 2: the years. Include the whitespace in the year, so that  
    # we can remove any excess.
    '\s*\(' + ranges + '\.\s*\)'  
    '@value\{(.*?)\}\s*')

# 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 + ')*)?')

# 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:
        cannon_form = holder
    self.holders[holder] = cannon_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:
    can_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 ' ')
    + can_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):
                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...\n\n' % sys.argv[0])
    'Options:\n' % sys.argv[0])
    format = '\n
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')

    format = '\n
    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_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
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    class GCCCmdLine (CmdLine):
def __init__(self):
    CommandLine.__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('libc1')
    self.add_dir('libcpp', LibCppFilter())
    self.add_dir('libdecnumber')
    # libffi is imported from upstream.
    self.add_dir('libgcc', LibGCCFilter())
    self.add_dir('libgfortran')
    # libgo is imported from upstream.
    self.add_dir('libgomp')
    self.add_dir('libhlsail-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',
        'libc1',
        'libcpp',
        'libdecnumber',
        ...]
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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.

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

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

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

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##
## By Mike Hamburg (Stanford University), 2009
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##
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Version 3, 29 June 2007
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Upstream source:
ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz.

Author: Per Bothner

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That's all there is to it!
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(age@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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#
# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
# # These lines make the symbols to get a @@GCC_4.6.0.

%exclude {
  ___addtf3
  ___copysigntf3
  ___divtc3
  ___divtf3
  ___eqtf2
  ___extendltf2
  ___extendsftf2
  ___extendxtf2
  ___fabstf2
  ___fixtdi
  ___fixtsi
  ___fixtfi
  ___fixunstfdi
  ___fixunstfsi
  ___fixunstfti
  ___floatditf
  ___floatsitf
  ___floatdtf
  ___floatustf
  ___floatuntitf
  ___floatunditf
  ___floatunsitf
  ___floatuntitf
__getf2
__gtf2
__letf2
__ltf2
__multc3
__multf3
__negf2
__netf2
__powf2
__subf3
__trunctf2f2
__trunctfsf2
__trunctxf2f2
__unordf2f2
}

GCC_4.6.0 {
__adtf3
%ifndef __x86_64__
__copysignf3
%endif
__divtc3
__divf3
__eqtf2
__extenddf3f2
__extendsf3f2
__extendsx3f2f2
%ifndef __x86_64__
__fabsf2f2
%endif
__fixtf3d
__fixtf3s
%ifdef __x86_64__
__fixtf3i
%endif
__fixunstf3d
__fixunstf3s
%ifdef __x86_64__
__fixunstf3i
%endif
__floatdif3f
__floatsitf
%ifdef __x86_64__
__floattitf
%endif
__floatunddif3f
__floatunsitf
%ifdef __x86_64__
__floatunddif3i
%endif
__floatundsitf
%ifdef __x86_64__
__floatundx3f3f2
%endif
__floatuntitf
%endif
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctfxf2
__unordtf2
)

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@heading TERMS AND CONDITIONS

@enumerate 0
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DRuntime: Runtime Library for the D Programming Language

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Version 3, 29 June 2007

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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.

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.

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

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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
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Version 3.1, 31 March 2009

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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)\n if ((LOG)!=0) fprintf ((FILE), \".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)\n sprintf ((BUF), \"*%s%ld\", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX \"_\"

/* 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
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
.fi
.
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\'\v-\1v\h'\'-1p\'\v-2\h'\'-1p'+\s0\v'\1v\h'\'-1p'
.ie n \{|  
   .ds -- \(*W-
   .ds PI pi
   .if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h'\'-12u\ (*)(W\h'\'-12u\-\v'' \(diablo 10 pitch
   .if (\n(.H=4u)&(1m=20u) .ds -- \(*W\h'\'-12u\ (*)(W\h'\'-8u\-\v'' \(diablo 12 pitch
   .ds L" "
   .ds R" "
   .ds C''
   .ds C''
\}br\}
.ie \{|  
   .ds -- \|(em\|
   .ds PI \(*p
   .ds L" "
   .ds R" "
   .ds C'
   .ds C'
\}br\}

Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(aq
.el .ds Aq '

Open Source Used In vEdge 20.1 20.1 3232
"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'.

dc IX
.
.. if \!nF\ .nr F 0
.. if \!nF\>0 \{
   dc IX
   tm Index:\$1\t\n%	"\$2"
.
   if !nF\==2 \{
      nr % 0
      nr F 2
   \}
\}
\}

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 #[ \f1
   ds #] \fP
\}
.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:\h'-(\n.wu*8/10-\*(#H)\v\n")\n.wu"}
   ds `\k:\h'-(\n.wu*8/10-\*(#H)\v\n")\n.wu"
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 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.
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IP "1. Source Code." 4
IX Item "1. Source Code."

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modified object code on the User Product (for example, the work has
been installed in \s-1ROMs\s0).

Sp
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```
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```

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```
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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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#
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# 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
    sys.stderr.write (string + '
')
    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',
'loptions.m4',
'ltversion.m4',
'ltobsolete.m4',
'missing',
'mkdep',
'mkinstallsdirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
})

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    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]{0,2}[-0-9,.\s+\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 + '|' + name)
# Matches a full copyright notice:
self.copyright_re = re.compile (
    # 1: 'Copyright (C)', etc.
    '((C|c)opyright' 
    '((C|c)opyrights+\((C|c)|' 
    '((C|c)opyrights+%'s' 
    '((C|c)opyrights+&copy;' 
    '((C|c)opyrights+@copyright{}' 
    'copyright = u"' 
    '@set(s+copyright[\w-]+)'
    # 2: the years. Include the whitespace in the year, so that 
    # we can remove any excess.
    '(' + ranges + ')?' 
    '@value\{[^{}]*\})s*')
    # 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 + ')*)?') 

# 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
# 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() + '\n'
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):
                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...

    Options:
    ' % sys.argv[0])
    format = '%-15s %s
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
    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 + '
')
        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)
    self.chosen_dirs = self.default_dirs
    self.o_help()
    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',
    ])

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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)
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 ('gnatools')
        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('libdeccnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libgo 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',
    'libdeccnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]
GCCCmdLine().main()

GCCRUNTIMELIBRARYEXCEPTION

Version 3.1.31 March 2009

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1.114 libuv 1.11.0 :1

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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
int rcount;
int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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Modemu Version 0.0.1
==================

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1.131 ncurses 6.1+20180630

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1.133 net-tools 1.60-26

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<li><a href="mailto:%20Hans_Lambermont@nl.origin-it.com">Hans Lambermont <hans.lambermont@nl.origin-it.com></a> or <a href="mailto:H.Lambermont@chello.nl">H.Lambermont@chello.nl</a> ntpsweep</li>
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<li><a href="mailto:%20Frank_Kardel@ntp.org">Frank Kardel</a> PARSE (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>
<li><a href="mailto:%20Johannes_Maximilian_Kuehn@ntp.org">Johannes Maximilian Kuehn <kuehn@ntp.org></a> Rewrote ntp/nt to comply with NTPV4 specification, ntpq saveconfig</li>
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<li><a href="mailto:%20ulrich.windl@rz.uni-regensburg.de">Ulrich Windl <ulrich.windl@rz.uni-regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>
</ul>
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5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
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7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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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.
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18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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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@gwdg1.dnet.gwdg.de> VMS port
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47. [51] Nick Sayer <nmp@quack.kfu.com> SunOS streams modules
48. [52] Jack Saportas <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
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52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
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copyright = {
  date = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = ntp;
};

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

version = 

eval VERSION="\$\(sed -e \"s/\*.*,\/[// -e \"s/\]/\*/ < ../sntp/m4/version.m4\""

[ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid 
echo $VERSION";

version-value = ""
  # Don't use -v as a shortcut for --version 
/
/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
  // doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
//     };

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>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> icu4c-4.4.1
>>> unicode-5.0

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>>> freebsd-base64-4.8
base64.c -- routines to encode/decode base64 data
SOpenLDAP: pkg/ldap/libraries/liblutil/base64.c.v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> icu4c-4.4.1

ICU License - ICU 1.8.1 and later

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1.140 openssh 7.6p1

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* @version 3.0 (December 2000)
* Optimised ANSI C code for the Rijndael cipher (now AES)
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#ifndef HAVE_SETRESGID
int setresgid(gid_t gid_t, gid_t gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t uid_t, uid_t uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp$ */

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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 POLLRDNDNM 0x0040
#define POLLNORMPOLLRDNDNM
#define POLLWRNORM POLLRDNDNM
#elif POLLWRAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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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 */

1.141 opkg-utils 0.3.6
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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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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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#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

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

my ($opt) = @ARGV;

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

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

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

done_testing;

sub readme_year
    # returns the latest copyright year from the top-level README file
    {
        open my $readme, '<', '../README' or die "Opening README failed: $!";

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

        my ($year) = $copyright_msg =~ /.*(\d{4,})/s
            or die "Year not found in README copyright message '$copyright_msg'
        $year;
    }
sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}\b/i
        or die "Copyright statement not found in perl -v output '$output'\n;

    $year;
}
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generatedBy: 'Module::Build version 0.3608'
license: gpl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzzip2 version 1.0.6 of 6 September 2010

1.151 pigz 2.4
1.151.1 Available under license :
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* 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 minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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1.160 pyasn1 0.4.2

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1.161 pycparser 2.18

1.162 pycrypto 2.6.1
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1.163 python 2.7.14

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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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.
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Mersenne Twister
--------------

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

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

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
e-mail: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `:mod:` `socket` module uses the functions, `:func:` `getaddrinfo` , and
`:func:` `getnameinfo` , which are coded in separate source files from the WIDE
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com
Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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**1.164 python-certifi 2018.1.18**

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This package contains a modified version of ca-bundle.crt:

c-ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCA_CertificateFile.

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

**1.165 python-cffi 1.11.5**

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1.166 python-cryptography 2.1.4

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1.167 python-django 1.11.11 :1.el7ost

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.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the `:doc:`/intro/contributing`
tutorial will give you an introduction to the tools and the workflow.
First steps
============

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

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* **Triage tickets**

  If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug’s behavior, even if you don’t fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

  Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

  Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

  Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

   The `reports page`_ contains links to many useful Trac queries, including
several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the
project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.
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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.
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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1.168 python-idna 2.6
1.169 python-jsonpatch 1.23

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1.172 python-lxml_test_script 3.3.5

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1.177 python-pyopenssl 17.5.0

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1.186 requests 2.18.4

1.187 rsync 3.1.3
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1.195 socklog 2.1.0

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1.196 speedtest-cli 1.0.0

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Author: Adam Dunkels <adam@sics.se>

*/

1.203 tar 1.30

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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.
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1.209 tzdata 2018d :1

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1.210 u-boot 2013.07

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(principal original author of dtc and libfdt)
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<li><a href="http://chukwa.apache.org/" title="Open source data collection system for monitoring large distributed systems.">Chukwa</a></li>
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<li><a href="http://gora.apache.org/" title="ORM framework for column stores such as Apache HBase and Apache Cassandra with a specific focus on Hadoop">Gora</a></li>
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<li><a href="http://hama.apache.org/" title="a Bulk Synchronous Parallel computing framework on top of Hadoop">Hama</a></li>
<li><a href="http://hbase.apache.org/" title="Hadoop Database">HBase</a></li>
<li><a href="http://helix.apache.org/" title="A cluster management framework for partitioned and replicated distributed resources">Helix</a></li>
<li><a href="http://hive.apache.org/" title="Data warehouse infrastructure using the Hadoop Database">Hive</a></li>
<li><a href="http://hc.apache.org/" title="Java toolset of low level HTTP components">HttpComponents</a></li>
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<li><a href="http://jackrabbit.apache.org/" title="Content Repository for Java">Jackrabbit</a></li>
<li><a href="http://jclouds.apache.org/" title="Java cloud APIs and abstractions">jclouds</a></li>
<li><a href="http://jspwiki.apache.org/" title="Leading open source WikiWiki engine, feature-rich and built around standard J2EE components (Java, servlets, JSP).">JSPWiki</a></li>
<li><a href="http://juddi.apache.org/" title="Java implementation of the Universal Description, Discovery, and Integration specification">jUDDI</a></li>
<li><a href="http://kafka.apache.org/" title="Distributed publish-subscribe messaging system">Kafka</a></li>
<li><a href="http://knox.apache.org/" title="Simplify and normalize the deployment and implementation of secure Hadoop clusters">Knox</a></li>
<li><a href="http://libcloud.apache.org/" title="Unified interface to the cloud">Libcloud</a></li>
<li><a href="http://manifoldcf.apache.org/" title="Framework for connecting source content repositories to target repositories or indexes">ManifoldCF</a></li>
<li><a href="http://maven.apache.org/" title="Java project management and comprehension tools">Maven</a></li>
<li><a href="http://mesos.apache.org/" title="a cluster manager that provides efficient resource isolation and sharing across distributed applications">Mesos</a></li>
<li><a href="http://mina.apache.org/" title="Multipurpose Infrastructure for Network Application">MINA</a></li>
<li><a href="http://mrunit.apache.org/" title="Java library that helps developers unit test Apache Hadoop map reduce jobs">MRUnit</a></li>
<li><a href="http://myfaces.apache.org/" title="JavaServer(tm) Faces implementation and components">MyFaces</a></li>
Open Source Used In vEdge 20.1

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- OFBiz
- Olingo
- Oltu
- Onami
- OODT
- Oozie
- Open Climate Workbench
- OpenJPA
- OpenMeetings
- OpenNLP
- OpenOffice
- OpenWebBeans
- PDFBox
- Perl
- Pig
- Pivot
- POI
- Portals
- Qpid
- Rave
- River
- Roller
- Santuario
- ServiceMix
- Shindig
- SIS
- Sling
- SpamAssassin
- Spark
- Sqoop
- Stanbol
- Shiro
- SIS
- Stanbol
- STeVe
<li><a href="http://storm.apache.org/" title="Distributed, real-time computation system">Storm</a></li>
<li><a href="http://tajo.apache.org/" title="Big data warehouse system on Hadoop">Tajo</a></li>
<li><a href="http://tiles.apache.org/" title="A templating framework for web application user interfaces">Tiles</a></li>
<li><a href="http://tomee.apache.org/" title="Java EE Web Profile built on Tomcat">TomEE</a></li>
<li><a href="http://trafficserver.apache.org/" title="A fast, scalable and extensible HTTP/1.1 compliant caching proxy server">Traffic Server</a></li>
<li><a href="http://uima.apache.org/" title="Framework and annotators for unstructured information analysis">UIMA</a></li>
<li><a href="http://vcl.apache.org/" title="Virtual Computing Lab">VCL</a></li>
<li><a href="http://whirr.apache.org/" title="Libraries for running Cloud Services">Whirr</a></li>
<li><a href="http://wink.apache.org/" title="RESTful Web services Framework">Wink</a></li>
<li><a href="http://wookie.apache.org/" title="Widgets for Applications">Wookie</a></li>
<li><a href="http://xalan.apache.org/" title="XSLT processors in Java and C++">Xalan</a></li>
<li><a href="http://xerces.apache.org/" title="XML parsers in Java, C++ and Perl">Xerces</a></li>
<li><a href="http://xmlbeans.apache.org/" title="XML-Java binding tool">XMLBeans</a></li>
<li><a href="http://zookeeper.apache.org/" title="Centralized service for maintaining configuration information">ZooKeeper</a></li>
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