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# 1.4 apache-cxf-3.3.0 3.3.0

## 1.4.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<!-- NewPage -->
<html lang="en">
<head>
<!-- Generated by javadoc -->
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Uses of Interface org.apache.cxf.io.CopyingOutputStream (Apache CXF JavaDoc 3.3.0 API)</title>
<link rel="stylesheet" type="text/css" href="../../../../stylesheet.css" title="Style">
<script type="text/javascript" src="../../../../script.js"></script>
</head>
<body>
<script type="text/javascript"><!--
    try {
        if (location.href.indexOf('is-external=true') == -1) {
            parent.document.title="Uses of Interface org.apache.cxf.io.CopyingOutputStream (Apache CXF JavaDoc
3.3.0 API)";
        }
    }
    catch(err) {
    }
//-->
</script>
<noscript>
<div>JavaScript is disabled on your browser.</div>
</noscript>
<!-- ===== START OF TOP NAVBAR ===== -->
<div class="topNav"><a name="navbar.top">
<!-- -->
</a>
<div class="skipNav"><a href="#skip.navbar.top" title="Skip navigation links">Skip navigation links</a></div>
<a name="navbar.top.firstrow">
<!-- -->
</a>
<ul class="navList" title="Navigation">
<li><a href="../../../../overview-summary.html">Overview</a></li>
<li><a href="../../package-summary.html">Package</a></li>
<li><a href="../../org/apache/cxf/io/CopyingOutputStream.html" title="interface in
org.apache.cxf.io">Class</a></li>
<li class="navBarCell1Rev">Use</li>
<li><a href="../../../../overview-tree.html">Tree</a></li>
<li><a href="../../../../deprecated-list.html">Deprecated</a></li>
<li><a href="../../../../index-all.html">Index</a></li>
```



```

<li><a href="../../../../help-doc.html">Help</a></li>
</ul>
<div class="aboutLanguage">Apache CXF API</div>
</div>
<div class="subNav">
<ul class="navList">
<li>Prev</li>
<li>Next</li>
</ul>
<ul class="navList">
<li><a href="../../../../index.html?org/apache/cxf/io/class-use/CopyingOutputStream.html"
target="_top">Frames</a></li>
<li><a href="CopyingOutputStream.html" target="_top">No&nbsp;Frames</a></li>
</ul>
<ul class="navList" id="allclasses_navbar_top">
<li><a href="../../../../allclasses-noframe.html">All&nbsp;Classes</a></li>
</ul>
</div>
<script type="text/javascript"><!--
allClassesLink = document.getElementById("allclasses_navbar_top");
if(window==top) {
    allClassesLink.style.display = "block";
}
else {
    allClassesLink.style.display = "none";
}
//-->
</script>
</div>
<a name="skip.navbar.top">
<!-- -->
</a></div>
<!-- ===== END OF TOP NAVBAR ===== -->
<div class="header">
<h2 title="Uses of Interface org.apache.cxf.io.CopyingOutputStream" class="title">Uses of
Interface<br>org.apache.cxf.io.CopyingOutputStream</h2>
</div>
<div class="classUseContainer">No usage of org.apache.cxf.io.CopyingOutputStream</div>
<!-- ===== START OF BOTTOM NAVBAR ===== -->
<div class="bottomNav"><a name="navbar.bottom">
<!-- -->
</a>
<div class="skipNav"><a href="#skip.navbar.bottom" title="Skip navigation links">Skip navigation
links</a></div>
<a name="navbar.bottom.firstrow">
<!-- -->
</a>
<ul class="navList" title="Navigation">

```



```

<li><a href="../../overview-summary.html">Overview</a></li>
<li><a href="../../package-summary.html">Package</a></li>
<li><a href="../../org/apache/cxf/io/CopyingOutputStream.html" title="interface in
org.apache.cxf.io">Class</a></li>
<li class="navBarCell1Rev">Use</li>
<li><a href="../../overview-tree.html">Tree</a></li>
<li><a href="../../deprecated-list.html">Deprecated</a></li>
<li><a href="../../index-all.html">Index</a></li>
<li><a href="../../help-doc.html">Help</a></li>
</ul>
<div class="aboutLanguage">Apache CXF API</div>
</div>
<div class="subNav">
<ul class="navList">
<li>Prev</li>
<li>Next</li>
</ul>
<ul class="navList">
<li><a href="../../index.html?org/apache/cxf/io/class-use/CopyingOutputStream.html"
target="_top">Frames</a></li>
<li><a href="CopyingOutputStream.html" target="_top">No&nbsp;Frames</a></li>
</ul>
<ul class="navList" id="allclasses_navbar_bottom">
<li><a href="../../allclasses-noframe.html">All&nbsp;Classes</a></li>
</ul>
</div>
<script type="text/javascript"><!--
allClassesLink = document.getElementById("allclasses_navbar_bottom");
if(window==top) {
    allClassesLink.style.display = "block";
}
else {
    allClassesLink.style.display = "none";
}
//-->
</script>
</div>
<a name="skip.navbar.bottom">
<!-- -->
</a></div>
<!-- ===== END OF BOTTOM NAVBAR ===== -->
<p class="legalCopy"><small>Apache CXF</small></p>
</body>
</html>
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```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

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

```
<head>
```

```
<meta name="generator" content="HTML Tidy, see www.w3.org" />
```

```
<meta http-equiv="Content-Type"
```

```
content="text/html; charset=iso-8859-1" />
```

```
<link rel="stylesheet" type="text/css"
```

```
href="/StyleSheets/base.css" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body text="#000000" bgcolor="#FFFFFF">
```

```
<h1>W3C<sup>&reg;</sup> SOFTWARE NOTICE AND LICENSE</h1>
```

```
<h3>Copyright &copy; 1994-2002 <a href="http://www.w3.org/">World
```

```
Wide Web Consortium</a>, (<a
```

```
href="http://www.lcs.mit.edu/">Massachusetts Institute of
```



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&nbsp;

&nbsp;

[webmaster](http://../Help/Webmaster.html)  
(last updated \$Date\$)  
</body>  
</html>

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Spring Framework 5.1.4.RELEASE

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lineSeparatormainorg/bouncycastle/LICENSEorg/bouncycastle/util/Stringsoutportions of the

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!"&Ljava/io/PrintStream;Ljava/lang/String;()Ljava/lang/String;(Ljava/lang/String;)V([Ljava/lang/String;)V-(Ljava/lang/String;)Ljava/lang/StringBuilder;(3#4\$5,5\*68 09 1:

->

.;

/;

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2<Code!1. #4H\*C %7H

@ABH/YDFGFGFFGF

FGFFGFFGFFGFGF FGF

FGFGFFGFFGFFGFFGFFGFFFEA

4

'X

YZ &[ &\ &]

Y^

&\_ &`

'a

bc

Yde

Yf

gc

Yh

Yi

Yj

gklmlno

Xpq

r

s

tluv

Xw

xyz



```

{|
} classNameLjava/lang/String;nameactionStringactionsLjava/util/Set;
Signature#Ljava/util/Set<Ljava/lang/String;>;<init>()VCodeLineNumberTableLocalVariableTablethis
PermissionInnerClasses3Lorg/apache/tools/ant/types/Permissions$Permission;setClass(Ljava/lang/String;)VaClassg
etClassName(Ljava/lang/String;setNameaNamegetName
setActions
StackMapTable
getActionsmatches(Ljava/security/Permission;)ZasssizeIpermLjava/security/Permission;LocalVariableTypeTablepar
seActions#(Ljava/lang/String;)Ljava/util/Set;itemresulttkLjava/util/StringTokenizer;p7(Ljava/lang/String;)Ljava/util
/Set<Ljava/lang/String;>;toString
SourceFilePermissions.java01=()*+)MN,-
@=*C=Gjava/util/HashSetjava/util/StringTokenizer,0=java/lang/StringBuilderPermission: ("",
""))U=1org/apache/tools/ant/types/Permissions$Permissionjava/lang/Object
java/util/Setjava/lang/StringtrimisEmpty()ZgetClass()Ljava/lang/Class;java/lang/Classequals(Ljava/lang/Object;)Ze
ndsWith(Ljava/lang/String;)Zjava/security/Permissionlength()I substring(II)Ljava/lang/String;
startsWith removeAll(Ljava/util/Collection;)Z'(Ljava/lang/String;Ljava/lang/String;)V
hasMoreTokens nextTokenaddappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;&org/apache/tools/ant/types/Permissions!&'()*+),-./
012/*34589:2A *+3
4 58 ;)<=2/*3458>:2A *+3
4 58 ?)@=2/*3458A:2_ *++*+3 !$458,)BC=2/*3+458DE2,*+
*<*
+**d*+*.+M,>,*W,3:3467&8A9C;Q<S?Z@cAjBuDF4*c"F-jGH58IJKc"F/B//L@MN29YMY+N- -
:,W,3"NOPQ#R+S4U7V44#O)9589,)1P-&QRK1P/B
LS .TU=2^4Y * ! * " *#$ %3_4458VW7
&~6
4&
! " #$$%
permissionLjava/lang/String;description
isDefaultZ<init>()VCodeLineNumberTableLocalVariableTablethis2Lorg/apache/cxf/rs/security/oauth/data/Permissi
on;(Ljava/lang/String;Ljava/lang/String;)VgetDescription()Ljava/lang/String;setDescription(Ljava/lang/String;)V
getPermission
setPermission
setDefault(Z)Vvalue()Z
SourceFilePermission.java

0org/apache/cxf/rs/security/oauth/data/Permissionjava/lang/Object!

3*
!Y**,*+#$ %& /*)>*+
-./ *1>*+
56>*
?@
/*C
4
copyFrom(Ljava/io/InputStream;)I
Exceptions
SourceFileCopyingOutputStream.java%org/apache/cxf/io/CopyingOutputStreamjava/lang/Objectjava/io/IOExceptio

```



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n
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<!-- NewPage -->
<html lang="en">
<head>
<!-- Generated by javadoc -->
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>CopyingOutputStream (Apache CXF JavaDoc 3.3.0 API)</title>
<link rel="stylesheet" type="text/css" href="../../stylesheet.css" title="Style">
<script type="text/javascript" src="../../script.js"></script>
</head>
<body>
<script type="text/javascript"><!--
    try {
        if (location.href.indexOf('is-external=true') == -1) {
            parent.document.title="CopyingOutputStream (Apache CXF JavaDoc 3.3.0 API)";
        }
    }
    catch(err) {
    }
//-->
var methods = {"i0":6};
var tabs = {65535:["t0","All Methods"],2:["t2","Instance Methods"],4:["t3","Abstract Methods"]};
var altColor = "altColor";
var rowColor = "rowColor";
var tableTab = "tableTab";
var activeTableTab = "activeTableTab";
</script>
<noscript>
<div>JavaScript is disabled on your browser.</div>
</noscript>
<!-- ===== START OF TOP NAVBAR ===== -->
<div class="topNav"><a name="navbar.top">
<!-- -->
</a>
<div class="skipNav"><a href="#skip.navbar.top" title="Skip navigation links">Skip navigation links</a></div>
<a name="navbar.top.firstrow">
<!-- -->
</a>
<ul class="navList" title="Navigation">
<li><a href="../../overview-summary.html">Overview</a></li>
<li><a href="package-summary.html">Package</a></li>
<li class="navBarCell1Rev">Class</li>
<li><a href="class-use/CopyingOutputStream.html">Use</a></li>
<li><a href="package-tree.html">Tree</a></li>
<li><a href="../../deprecated-list.html">Deprecated</a></li>
<li><a href="../../index-all.html">Index</a></li>

```



```

<li><a href="../../help-doc.html">Help</a></li>
</ul>
<div class="aboutLanguage">Apache CXF API</div>
</div>
<div class="subNav">
<ul class="navList">
<li><a href="../../org/apache/cxf/io/CipherPair.html" title="class in org.apache.cxf.io"><span
class="typeNameLink">Prev&nbsp;Class</span></a></li>
<li><a href="../../org/apache/cxf/io/DelegatingInputStream.html" title="class in org.apache.cxf.io"><span
class="typeNameLink">Next&nbsp;Class</span></a></li>
</ul>
<ul class="navList">
<li><a href="../../index.html?org/apache/cxf/io/CopyingOutputStream.html" target="_top">Frames</a></li>
<li><a href="CopyingOutputStream.html" target="_top">No&nbsp;Frames</a></li>
</ul>
<ul class="navList" id="allclasses_navbar_top">
<li><a href="../../allclasses-noframe.html">All&nbsp;Classes</a></li>
</ul>
</div>
<script type="text/javascript"><!--
allClassesLink = document.getElementById("allclasses_navbar_top");
if(window==top) {
    allClassesLink.style.display = "block";
}
else {
    allClassesLink.style.display = "none";
}
//-->
</script>
</div>
<div>
<ul class="subNavList">
<li>Summary:&nbsp;</li>
<li>Nested&nbsp;</li>
<li>Field&nbsp;</li>
<li>Constr&nbsp;</li>
<li><a href="#method.summary">Method</a></li>
</ul>
<ul class="subNavList">
<li>Detail:&nbsp;</li>
<li>Field&nbsp;</li>
<li>Constr&nbsp;</li>
<li><a href="#method.detail">Method</a></li>
</ul>
</div>
<a name="skip.navbar.top">
<!-- -->
</a></div>

```



```

<!-- ===== END OF TOP NAVBAR ===== -->
<!-- ===== START OF CLASS DATA ===== -->
<div class="header">
<div class="subTitle">org.apache.cxf.io</div>
<h2 title="Interface CopyingOutputStream" class="title">Interface CopyingOutputStream</h2>
</div>
<div class="contentContainer">
<div class="description">
<ul class="blockList">
<li class="blockList">
<hr>
<br>
<pre>public interface <span class="typeNameLabel">CopyingOutputStream</span></pre>
<div class="block">Marker interface for OutputStreams that can directly support
copying from an input stream.  OutputStreams that maintain their
own byte buffer or similar may be able to optimize the copy
instead of using the read/write into a temporary buffer that
the normal IOUtils.copy method requires.</div>
</li>
</ul>
</div>
<div class="summary">
<ul class="blockList">
<li class="blockList">
<!-- ===== METHOD SUMMARY ===== -->
<ul class="blockList">
<li class="blockList"><a name="method.summary">
<!-- -->
</a>
<h3>Method Summary</h3>
<table class="memberSummary" border="0" cellpadding="3" cellspacing="0" summary="Method Summary table,
listing methods, and an explanation">
<caption><span id="t0" class="activeTableTab"><span>All Methods</span><span
class="tabEnd">&nbsp;</span></span><span id="t2" class="tableTab"><span><a
href="javascript:show(2);">Instance Methods</a></span><span class="tabEnd">&nbsp;</span></span><span
id="t3" class="tableTab"><span><a href="javascript:show(4);">Abstract Methods</a></span><span
class="tabEnd">&nbsp;</span></span></caption>
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Method and Description</th>
</tr>
<tr id="i0" class="altColor">
<td class="colFirst"><code>int</code></td>
<td class="colLast"><code><span class="memberNameLink"><a
href="../..../org/apache/cxf/io/CopyingOutputStream.html#copyFrom-java.io.InputStream-
">copyFrom</a></span><a href="https://docs.oracle.com/javase/8/docs/api/java/io/InputStream.html?is-
external=true" title="class or interface in java.io">InputStream</a>&nbsp;<code>&nbsp;</td>
</tr>

```



```

</table>
</li>
</ul>
</li>
</ul>
</div>
<div class="details">
<ul class="blockList">
<li class="blockList">
<!-- ===== METHOD DETAIL ===== -->
<ul class="blockList">
<li class="blockList"><a name="method.detail">
<!-- -->
</a>
<h3>Method Detail</h3>
<a name="copyFrom-java.io.InputStream-">
<!-- -->
</a>
<ul class="blockListLast">
<li class="blockList">
<h4>copyFrom</h4>
<pre>int&nbsp;copyFrom(<a href="https://docs.oracle.com/javase/8/docs/api/java/io/InputStream.html?is-external=true" title="class or interface in java.io">InputStream</a>&nbsp;in)
    throws <a href="https://docs.oracle.com/javase/8/docs/api/java/io/IOException.html?is-external=true" title="class or interface in java.io">IOException</a></pre>
<dl>
<dt><span class="throwsLabel">Throws:</span></dt>
<dd><code><a href="https://docs.oracle.com/javase/8/docs/api/java/io/IOException.html?is-external=true" title="class or interface in java.io">IOException</a></code></dd>
</dl>
</li>
</ul>
</li>
</ul>
</div>
</div>
<!-- ===== END OF CLASS DATA ===== -->
<!-- ===== START OF BOTTOM NAVBAR ===== -->
<div class="bottomNav"><a name="navbar.bottom">
<!-- -->
</a>
<div class="skipNav"><a href="#skip.navbar.bottom" title="Skip navigation links">Skip navigation
links</a></div>
<a name="navbar.bottom.firstrow">
<!-- -->
</a>

```



```

<ul class="navList" title="Navigation">
<li><a href="../../overview-summary.html">Overview</a></li>
<li><a href="package-summary.html">Package</a></li>
<li class="navBarCell1Rev">Class</li>
<li><a href="class-use/CopyingOutputStream.html">Use</a></li>
<li><a href="package-tree.html">Tree</a></li>
<li><a href="../../deprecated-list.html">Deprecated</a></li>
<li><a href="../../index-all.html">Index</a></li>
<li><a href="../../help-doc.html">Help</a></li>
</ul>
<div class="aboutLanguage">Apache CXF API</div>
</div>
<div class="subNav">
<ul class="navList">
<li><a href="../../org/apache/cxf/io/CipherPair.html" title="class in org.apache.cxf.io"><span
class="typeNameLink">Prev&nbsp;Class</span></a></li>
<li><a href="../../org/apache/cxf/io/DelegatingInputStream.html" title="class in org.apache.cxf.io"><span
class="typeNameLink">Next&nbsp;Class</span></a></li>
</ul>
<ul class="navList">
<li><a href="../../index.html?org/apache/cxf/io/CopyingOutputStream.html" target="_top">Frames</a></li>
<li><a href="CopyingOutputStream.html" target="_top">No&nbsp;Frames</a></li>
</ul>
<ul class="navList" id="allclasses_navbar_bottom">
<li><a href="../../allclasses-noframe.html">All&nbsp;Classes</a></li>
</ul>
</div>
<script type="text/javascript"><!--
allClassesLink = document.getElementById("allclasses_navbar_bottom");
if(window==top) {
    allClassesLink.style.display = "block";
}
else {
    allClassesLink.style.display = "none";
}
//-->
</script>
</div>
<div>
<ul class="subNavList">
<li>Summary:&nbsp;</li>
<li>Nested&nbsp;&nbsp;</li>
<li>Field&nbsp;&nbsp;&nbsp;</li>
<li>Constr&nbsp;&nbsp;&nbsp;</li>
<li><a href="#method.summary">Method</a></li>
</ul>
<ul class="subNavList">
<li>Detail:&nbsp;</li>

```







# 1.6 bcprov-jdk15on 1.52

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## 1.24 jackson-mapper-asl 1.8.1

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## 1.35 mimepull 1.3



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## 1.36 msv-core 2011.1

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## 1.37 opencsv 3.9

## 1.38 prettytime-3.2.5-Final 3.2.5

## 1.39 protobuf 2.5.0

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## 1.47 stax-ex 1.2 :8.jdk6.ep5.el5

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# 1.48 Stax2-api 3.1.1

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Wed, 2010-03-31 14:02 administrator

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## 1.52 wsdl4j 1.6.3

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## 1.54 xercesImpl 2.9.1

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/\* Getopt for GNU.

NOTE: getopt is now part of the C library, so if you don't know what "Keep this file name-space clean" means, talk to drepper@gnu.org before changing it!

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```
#ifndef _LIBC
# include <config.h>
#endif

#include "getopt.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>

#ifdef __VMS
# include <unixlib.h>
#endif

/* Completely disable NLS for getopt. We won't include translations for it
   anyway. If the system lacks getopt_long, missing translations probably
   aren't a problem. */
/*
#ifdef _LIBC
# include <libintl.h>
#else
# include "gettext.h"
# define _(msgid) gettext (msgid)
#endif
*/
#define _(msgid) (msgid)

#if defined _LIBC && defined USE_IN_LIBIO
# include <wchar.h>
#endif

#ifndef attribute_hidden
# define attribute_hidden
#endif

/* Unlike standard Unix `getopt', functions like `getopt_long'
   let the user intersperse the options with the other arguments.

   As `getopt_long' 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.
```



Using `getopt' or setting the environment variable POSIXLY\_CORRECT disables permutation.

Then the application's 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 "getopt_int.h"
```

```
/* For communication from `getopt' to the caller.
```

```
When `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 *optarg;
```

```
/* 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 `getopt'.
```

```
On entry to `getopt', zero means this is the first call; initialize.
```

```
When `getopt' returns -1, this is the index of the first of the  
non-option elements that the caller should itself scan.
```

```
Otherwise, `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 optind = 1;
```

```
/* Callers store zero here to inhibit the error message  
for unrecognized options. */
```

```
int 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 getopt implementation. */
```

```
int optopt = '?';
```

```
/* Keep a global copy of all internal members of getopt_data. */
```

```
static struct _getopt_data getopt_data;
```



```

#if defined HAVE_DECL_GETENV && !HAVE_DECL_GETENV
extern char *getenv ();
#endif

#ifdef _LIBC
/* Stored original parameters.
   XXX This is no good solution. We should rather copy the args so
   that we can compare them later. But we must not use malloc(3). */
extern int __libc_argc;
extern char **__libc_argv;

/* Bash 2.0 gives us an environment variable containing flags
   indicating ARGV elements that should not be considered arguments. */

# ifdef USE_NONOPTION_FLAGS
/* Defined in getopt_init.c */
extern char *__getopt_nonoption_flags;
# endif

# ifdef USE_NONOPTION_FLAGS
#  define SWAP_FLAGS(ch1, ch2) \
    if (d->__nonoption_flags_len > 0) \
    { \
        char __tmp = __getopt_nonoption_flags[ch1]; \
        __getopt_nonoption_flags[ch1] = __getopt_nonoption_flags[ch2]; \
        __getopt_nonoption_flags[ch2] = __tmp; \
    }
# else
#  define SWAP_FLAGS(ch1, ch2)
# endif
#else /* !_LIBC */
# define SWAP_FLAGS(ch1, ch2)
#endif /* _LIBC */

/* 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,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, struct _getopt_data *d)
{
    int bottom = d->__first_nonopt;

```



```

int middle = d->__last_nonopt;
int top = d->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. */

#if defined _LIBC && defined USE_NONOPTION_FLAGS
/* First make sure the handling of the `__getopt_nonoption_flags'
   string can work normally. Our top argument must be in the range
   of the string. */
if (d->__nonoption_flags_len > 0 && top >= d->__nonoption_flags_max_len)
{
    /* We must extend the array. The user plays games with us and
       presents new arguments. */
    char *new_str = malloc (top + 1);
    if (new_str == NULL)
d->__nonoption_flags_len = d->__nonoption_flags_max_len = 0;
    else
    {
        memset (__mempcpy (new_str, __getopt_nonoption_flags,
                           d->__nonoption_flags_max_len),
                '\0', top + 1 - d->__nonoption_flags_max_len);
        d->__nonoption_flags_max_len = top + 1;
        __getopt_nonoption_flags = new_str;
    }
}
#endif

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;
            SWAP_FLAGS (bottom + i, top - (middle - bottom) + i);
        }
        /* 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;
        SWAP_FLAGS (bottom + i, middle + i);
    }
    /* Exclude the moved top segment from further swapping. */
    bottom += len;
}
}

/* Update records for the slots the non-options now occupy. */

d->__first_nonopt += (d->optind - d->__last_nonopt);
d->__last_nonopt = d->optind;
}

/* Initialize the internal data when the first call is made. */

static const char *
_getopt_initialize (int argc, char **argv, const char *optstring,
    int posixly_correct, struct _getopt_data *d)
{
    /* 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. */

    d->__first_nonopt = d->__last_nonopt = d->optind;

    d->__nextchar = NULL;

    d->__posixly_correct = posixly_correct || !!getenv ("POSIXLY_CORRECT");

    /* Determine how to handle the ordering of options and nonoptions. */

    if (optstring[0] == '-')
    {
        d->__ordering = RETURN_IN_ORDER;
    }

```



```

    ++optstring;
}
else if (optstring[0] == '+')
{
    d->__ordering = REQUIRE_ORDER;
    ++optstring;
}
else if (d->__posixly_correct)
    d->__ordering = REQUIRE_ORDER;
else
    d->__ordering = PERMUTE;

#ifdef _LIBC && defined USE_NONOPTION_FLAGS
if (!d->__posixly_correct
    && argc == __libc_argc && argv == __libc_argv)
{
    if (d->__nonoption_flags_max_len == 0)
    {
        if (__getopt_nonoption_flags == NULL
            || __getopt_nonoption_flags[0] == '\0')
            d->__nonoption_flags_max_len = -1;
        else
        {
            const char *orig_str = __getopt_nonoption_flags;
            int len = d->__nonoption_flags_max_len = strlen (orig_str);
            if (d->__nonoption_flags_max_len < argc)
                d->__nonoption_flags_max_len = argc;
            __getopt_nonoption_flags =
                (char *) malloc (d->__nonoption_flags_max_len);
            if (__getopt_nonoption_flags == NULL)
                d->__nonoption_flags_max_len = -1;
            else
                memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
                    '\0', d->__nonoption_flags_max_len - len);
        }
    }
    d->__nonoption_flags_len = d->__nonoption_flags_max_len;
}
else
    d->__nonoption_flags_len = 0;
#endif

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 `getopt` is called repeatedly, it returns successively each of the option characters from each of the option elements.

If `getopt` finds another option character, it returns that character, updating `optind` and `nextchar` so that the next call to `getopt` can resume the scan with the following option character or ARGV-element.

If there are no more option characters, `getopt` returns -1. Then `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 `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 `optarg`. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in `optarg`, otherwise `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 `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.

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.



If POSIXLY\_CORRECT is nonzero, behave as if the POSIXLY\_CORRECT environment variable were set. \*/

```
int
_getopt_internal_r (int argc, char **argv, const char *optstring,
    const struct option *longopts, int *longind,
    int long_only, int posixly_correct, struct _getopt_data *d)
{
    int print_errors = d->opterr;
    if (optstring[0] == ':')
        print_errors = 0;

    if (argc < 1)
        return -1;

    d->optarg = NULL;

    if (d->optind == 0 || !d->__initialized)
    {
        if (d->optind == 0)
            d->optind = 1; /* Don't scan ARGV[0], the program name. */
        optstring = _getopt_initialize (argc, argv, optstring,
            posixly_correct, d);
        d->__initialized = 1;
    }

    /* Test whether ARGV[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. */
    #if defined _LIBC && defined USE_NONOPTION_FLAGS
    # define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0' \
        || (d->optind < d->__nonoption_flags_len \
        && __getopt_nonoption_flags[d->optind] == '1'))
    #else
    # define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0')
    #endif

    if (d->__nextchar == NULL || *d->__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 (d->__last_nonopt > d->optind)
            d->__last_nonopt = d->optind;
        if (d->__first_nonopt > d->optind)
```



```

d->__first_nonopt = d->optind;

if (d->__ordering == PERMUTE)
{
/* If we have just processed some options following some non-options,
   exchange them so that the options come first. */

if (d->__first_nonopt != d->__last_nonopt
    && d->__last_nonopt != d->optind)
    exchange ((char **) argv, d);
else if (d->__last_nonopt != d->optind)
    d->__first_nonopt = d->optind;

/* Skip any additional non-options
   and extend the range of non-options previously skipped. */

while (d->optind < argc && NONOPTION_P)
    d->optind++;
d->__last_nonopt = d->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 (d->optind != argc && !strcmp (argv[d->optind], "--"))
{
d->optind++;

if (d->__first_nonopt != d->__last_nonopt
    && d->__last_nonopt != d->optind)
    exchange ((char **) argv, d);
else if (d->__first_nonopt == d->__last_nonopt)
    d->__first_nonopt = d->optind;
d->__last_nonopt = argc;

d->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 (d->optind == argc)
{
/* Set the next-arg-index to point at the non-options
   that we previously skipped, so the caller will digest them. */
if (d->__first_nonopt != d->__last_nonopt)

```



```

    d->optind = d->__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 (d->__ordering == REQUIRE_ORDER)
            return -1;
        d->optarg = argv[d->optind++];
        return 1;
    }

/* We have found another option-ARGV-element.
Skip the initial punctuation. */

    d->__nextchar = (argv[d->optind] + 1
+ (longopts != NULL && argv[d->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[d->optind][1] == '-')
        || (long_only && (argv[d->optind][2]
            || !strchr(optstring, argv[d->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 = d->__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, d->__nextchar, nameend - d->__nextchar))
{
    if ((unsigned int) (nameend - d->__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 if (long_only
|| pfound->has_arg != p->has_arg
|| pfound->flag != p->flag
|| pfound->val != p->val)
/* Second or later nonexact match found. */
ambig = 1;
}

if (ambig && !exact)
{
    if (print_errors)
    {
#ifdef _LIBC && defined USE_IN_LIBIO
        char *buf;

        if (__asprintf (&buf, _("%s: option '%s' is ambiguous\n"),
            argv[0], argv[d->optind]) >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

```



```

__fxprintf (NULL, "%s", buf);

((__IO_FILE *) stderr)->_flags2 = old_flags2;
_IO_funlockfile (stderr);

free (buf);
}
#else
    fprintf (stderr, _("%s: option `%' is ambiguous\n"),
        argv[0], argv[d->optind]);
#endif
    }
    d->__nextchar += strlen (d->__nextchar);
    d->optind++;
    d->optopt = 0;
    return '?';
}

    if (pfound != NULL)
    {
        option_index = indfound;
        d->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)
                d->optarg = nameend + 1;
            else
            {
                if (print_errors)
                {
                    #if defined _LIBC && defined USE_IN_LIBIO
                        char *buf;
                        int n;
                    #endif
                    if (argv[d->optind - 1][1] == '-')
                    {
                        /* --option */
                        #if defined _LIBC && defined USE_IN_LIBIO
                            n = __asprintf (&buf, _("\
%s: option `--%' doesn't allow an argument\n"),
                                argv[0], pfound->name);
                        #else
                            fprintf (stderr, _("\
%s: option `--%' doesn't allow an argument\n"),
                                argv[0], pfound->name);
                        #endif
                    }
                }
            }
        }
    }

```



```

#endif
}
else
{
    /* +option or -option */
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("\
%s: option `%c%s' doesn't allow an argument\n"),
        argv[0], argv[d->optind - 1][0],
        pfound->name);
#else
    fprintf (stderr, _("\
%s: option `%c%s' doesn't allow an argument\n"),
        argv[0], argv[d->optind - 1][0],
        pfound->name);
#endif
}

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2
            |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#endif

    d->__nextchar += strlen (d->__nextchar);

    d->optopt = pfound->val;
    return '?';
}
}
else if (pfound->has_arg == 1)
{
    if (d->optind < argc)
        d->optarg = argv[d->optind++];
    else

```



```

{
    if (print_errors)
    {
#if defined _LIBC && defined USE_IN_LIBIO
        char *buf;

        if (__asprintf (&buf, _("\
%s: option `%'s' requires an argument\n"),
            argv[0], argv[d->optind - 1]) >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2
                |= _IO_FLAGS2_NOTCANCEL;

            __fxprintf (NULL, "%s", buf);

            ((_IO_FILE *) stderr)->_flags2 = old_flags2;
            _IO_funlockfile (stderr);

            free (buf);
        }
#else
        fprintf (stderr,
            _("\
%s: option `%'s' requires an argument\n"),
            argv[0], argv[d->optind - 1]);
#endif
    }
    d->__nextchar += strlen (d->__nextchar);
    d->optopt = pfound->val;
    return optstring[0] == ':' ? ':' : '?';
}

d->__nextchar += strlen (d->__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 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[d->optind][1] == '-')
        || strchr (optstring, *d->__nextchar) == NULL)
    {
        if (print_errors)
        {
#ifdef defined _LIBC && defined USE_IN_LIBIO
            char *buf;
            int n;
#endif

            if (argv[d->optind][1] == '-')
            {
                /* --option */
#ifdef defined _LIBC && defined USE_IN_LIBIO
                n = __asprintf (&buf, _("%s: unrecognized option `--%s'\n"),
                    argv[0], d->__nextchar);
#else
                fprintf (stderr, _("%s: unrecognized option `--%s'\n"),
                    argv[0], d->__nextchar);
#endif
            }
            else
            {
                /* +option or -option */
#ifdef defined _LIBC && defined USE_IN_LIBIO
                n = __asprintf (&buf, _("%s: unrecognized option `%c%s'\n"),
                    argv[0], argv[d->optind][0], d->__nextchar);
#else
                fprintf (stderr, _("%s: unrecognized option `%c%s'\n"),
                    argv[0], argv[d->optind][0], d->__nextchar);
#endif
            }
        }

#ifdef defined _LIBC && defined USE_IN_LIBIO
        if (n >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

            __fxprintf (NULL, "%s", buf);

            ((_IO_FILE *) stderr)->_flags2 = old_flags2;
            _IO_funlockfile (stderr);

            free (buf);

```



```

    }
#endif
    }
    d->__nextchar = (char *) "";
    d->optind++;
    d->optopt = 0;
    return '?';
}
}

/* Look at and handle the next short option-character. */

{
    char c = *d->__nextchar++;
    char *temp = strchr (optstring, c);

    /* Increment `optind' when we start to process its last character. */
    if (*d->__nextchar == '\0')
        ++d->optind;

    if (temp == NULL || c == ':')
    {
        if (print_errors)
        {
#ifdef _LIBC && defined USE_IN_LIBIO
            char *buf;
            int n;
#endif
            if (d->__posixly_correct)
            {
                /* 1003.2 specifies the format of this message. */
#ifdef _LIBC && defined USE_IN_LIBIO
                n = __asprintf (&buf, _("%s: illegal option -- %c\n"),
                    argv[0], c);
                fprintf (stderr, _("%s: illegal option -- %c\n"), argv[0], c);
#endif
            }
            else
            {
#ifdef _LIBC && defined USE_IN_LIBIO
                n = __asprintf (&buf, _("%s: invalid option -- %c\n"),
                    argv[0], c);
                fprintf (stderr, _("%s: invalid option -- %c\n"), argv[0], c);
#endif
            }
        }
    }
}

```



```

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#endif
d->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 (*d->__nextchar != '\0')
    {
        d->optarg = d->__nextchar;
        /* If we end this ARGV-element by taking the rest as an arg,
           we must advance to the next element now. */
        d->optind++;
    }
    else if (d->optind == argc)
    {
        if (print_errors)
        {
            /* 1003.2 specifies the format of this message. */
            #if defined _LIBC && defined USE_IN_LIBIO
                char *buf;

```



```

if (__asprintf (&buf,
_("%s: option requires an argument -- %c\n"),
argv[0], c) >= 0)
{
_IO_flockfile (stderr);

int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

__fxprintf (NULL, "%s", buf);

((_IO_FILE *) stderr)->_flags2 = old_flags2;
_IO_funlockfile (stderr);

free (buf);
}
#else
fprintf (stderr, _("%s: option requires an argument -- %c\n"),
argv[0], c);
#endif
}
d->optopt = c;
if (optstring[0] == ':')
c = ':';
else
c = '?';
return c;
}
else
/* We already incremented `d->optind' once;
increment it again when taking next ARGV-elt as argument. */
d->optarg = argv[d->optind++];

/* optarg is now the argument, see if it's in the
table of longopts. */

for (d->__nextchar = nameend = d->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 (!strcmp (p->name, d->__nextchar, nameend - d->__nextchar))
{
if (((unsigned int) (nameend - d->__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 (print_errors)
        {
#ifdef _LIBC && defined USE_IN_LIBIO
            char *buf;

            if (__asprintf (&buf, _("%s: option `-%s' is ambiguous\n"),
                argv[0], argv[d->optind]) >= 0)
            {
                _IO_flockfile (stderr);

                int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

                __fxprintf (NULL, "%s", buf);

                ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                _IO_funlockfile (stderr);

                free (buf);
            }
        }
    }
    #else
        fprintf (stderr, _("%s: option `-%s' is ambiguous\n"),
            argv[0], argv[d->optind]);
    #endif
    }
    d->__nextchar += strlen (d->__nextchar);
    d->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)
        d->optarg = nameend + 1;
    else
    {
        if (print_errors)
        {
#ifdef _LIBC && defined USE_IN_LIBIO
            char *buf;

            if (__asprintf (&buf, _("\
%s: option `-%s' doesn't allow an argument\n"),
                argv[0], pfound->name) >= 0)
            {
                _IO_flockfile (stderr);

                int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                ((_IO_FILE *) stderr)->_flags2
                    |= _IO_FLAGS2_NOTCANCEL;

                __fxprintf (NULL, "%s", buf);

                ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                _IO_funlockfile (stderr);

                free (buf);
            }
        }
    }
    #else
        fprintf (stderr, _("\
%s: option `-%s' doesn't allow an argument\n"),
            argv[0], pfound->name);
    #endif
    }

    d->__nextchar += strlen (d->__nextchar);
    return '?';
}

}

else if (pfound->has_arg == 1)
{
    if (d->optind < argc)
        d->optarg = argv[d->optind++];
    else
    {

```



```

        if (print_errors)
        {
#if defined _LIBC && defined USE_IN_LIBIO
        char *buf;

        if (__asprintf (&buf, _("
%s: option `%' requires an argument\n"),
        argv[0], argv[d->optind - 1]) >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2
            |= _IO_FLAGS2_NOTCANCEL;

            __fxprintf (NULL, "%s", buf);

            ((_IO_FILE *) stderr)->_flags2 = old_flags2;
            _IO_funlockfile (stderr);

            free (buf);
        }
#else
        fprintf (stderr,
        _("%s: option `%' requires an argument\n"),
        argv[0], argv[d->optind - 1]);
#endif
        }
        d->__nextchar += strlen (d->__nextchar);
        return optstring[0] == ':' ? ':' : '?';
    }
    }
    d->__nextchar += strlen (d->__nextchar);
    if (longind != NULL)
        *longind = option_index;
    if (pfound->flag)
    {
        *(pfound->flag) = pfound->val;
        return 0;
    }
    return pfound->val;
}
d->__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 (*d->__nextchar != '\0')
    {
        d->optarg = d->__nextchar;
        d->optind++;
    }
    else
        d->optarg = NULL;
        d->__nextchar = NULL;
    }
else
    {
        /* This is an option that requires an argument. */
        if (*d->__nextchar != '\0')
        {
            d->optarg = d->__nextchar;
            /* If we end this ARGV-element by taking the rest as an arg,
               we must advance to the next element now. */
            d->optind++;
        }
        else if (d->optind == argc)
        {
            if (print_errors)
            {
                /* 1003.2 specifies the format of this message. */
#ifdef _LIBC && defined USE_IN_LIBIO
                char *buf;

                if (__asprintf (&buf, _("%s: option requires an argument -- %c\n"),
                    argv[0], c) >= 0)
                {
                    _IO_flockfile (stderr);

                    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                    ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

                    __fxprintf (NULL, "%s", buf);

                    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                    _IO_funlockfile (stderr);

                    free (buf);
                }
            }
        }
    }
}

```



```

        argv[0], c);
#endif
    }
    d->optopt = c;
    if (optstring[0] == ':')
        c = ':';
    else
        c = '?';
    }
    else
        /* We already incremented `optind' once;
        increment it again when taking next ARGV-elt as argument. */
        d->optarg = argv[d->optind++];
        d->__nextchar = NULL;
    }
    }
    return c;
}

int
_getopt_internal (int argc, char **argv, const char *optstring,
    const struct option *longopts, int *longind,
    int long_only, int posixly_correct)
{
    int result;

    getopt_data.optind = optind;
    getopt_data.opterr = opterr;

    result = _getopt_internal_r (argc, argv, optstring, longopts, longind,
        long_only, posixly_correct, &getopt_data);

    optind = getopt_data.optind;
    optarg = getopt_data.optarg;
    optopt = getopt_data.optopt;

    return result;
}

/* glibc gets a LSB-compliant getopt.
   Standalone applications get a POSIX-compliant getopt. */
#ifdef _LIBC
enum { POSIXLY_CORRECT = 0 };
#else
enum { POSIXLY_CORRECT = 1 };
#endif

```



```

int
getopt (int argc, char *const *argv, const char *optstring)
{
    return _getopt_internal (argc, (char **) argv, optstring, NULL, NULL, 0,
        POSIXLY_CORRECT);
}

```

```

#ifdef TEST

```

```

/* Compile with -DTEST to make an executable for use in testing
the above definition of `getopt'. */

```

```

int
main (int argc, char **argv)
{
    int c;
    int digit_optind = 0;

    while (1)
    {
        int this_option_optind = optind ? optind : 1;

        c = 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)
                    printf ("digits occur in two different argv-elements.\n");
                digit_optind = this_option_optind;
                printf ("option %c\n", c);
                break;

            case 'a':
                printf ("option a\n");
                break;

```



```

case 'b':
    printf ("option b\n");
    break;

case 'c':
    printf ("option c with value ` %s\n", optarg);
    break;

case '?':
    break;

default:
    printf ("?? getopt returned character code 0%o ??\n", c);
}
}

if (optind < argc)
{
    printf ("non-option ARGV-elements: ");
    while (optind < argc)
    printf ("%s ", argv[optind++]);
    printf ("\n");
}

exit (0);
}

```

#endif /\* TEST \*/

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```



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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:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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```

The hypothetical commands `show w' and `show c' should show the appropriate  
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might be different; for a GUI interface, you would use an "about box".

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## XZ Utils Licensing

=====

Different licenses apply to different files in this package. Here  
is a rough summary of which licenses apply to which parts of this  
package (but check the individual files to be sure!):

- liblzma is in the public domain.
- xz, xzdec, and lzmadec command line tools are in the public  
domain unless GNU getopt\_long had to be compiled and linked  
in from the lib directory. The getopt\_long code is under  
GNU LGPLv2.1+.



- The scripts to grep, diff, and view compressed files have been adapted from gzip. These scripts and their documentation are under GNU GPLv2+.
- All the documentation in the doc directory and most of the XZ Utils specific documentation files in other directories are in the public domain.
- Translated messages are in the public domain.
- The build system contains public domain files, and files that are under GNU GPLv2+ or GNU GPLv3+. None of these files end up in the binaries being built.
- Test files and test code in the tests directory, and debugging utilities in the debug directory are in the public domain.
- The extra directory may contain public domain files, and files that are under various free software licenses.

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If you copy significant amounts of public domain code from XZ Utils into your project, acknowledging this somewhere in your software is polite (especially if it is proprietary, non-free software), but naturally it is not legally required. Here is an example of a good notice to put into "about box" or into documentation:

This software includes code from XZ Utils <<http://tukaani.org/xz/>>.

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If you have questions, don't hesitate to ask the author(s) for more information.

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