OpenEdge Management and OpenEdge Explorer: Getting Started with Multi-tenancy
Third party acknowledgements — See the table of contents for the "Third Party Acknowledgements" appendix.
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Preface

This Preface contains the following sections:

- Purpose
- Audience
- Organization
- Using this manual
- Typographical conventions
- Examples of syntax descriptions
- OpenEdge messages
Preface

Purpose

This manual describes how to get started with database multi-tenancy.

Audience

This manual is intended for OpenEdge Management and OpenEdge Explorer users as well as OpenEdge Management database and system administrators.

Organization

Chapter 1, “Getting Started with Multi-tenancy in the Database Administration Console”

Describes how to get started in the console by setting up a multi-tenant database and working with the database and its tenants, users, and contents.

Chapter 2, “Additional information about multi-tenancy in OpenEdge”

Directs you to additional sources of information about multi-tenancy.

Chapter A, “Third Party Acknowledgements”

Using this manual

OpenEdge® provides a special purpose programming language for building business applications. In the documentation, the formal name for this language is ABL (Advanced Business Language). With few exceptions, all keywords of the language appear in all UPPERCASE, using a font that is appropriate to the context. All other alphabetic language content appears in mixed case.

For the latest documentation updates, see the OpenEdge Product Documentation category on PSDN (http://communities.progress.com/pcom/docs/DOC-16074).

References to ABL compiler and run-time features

ABL is both a compiled and an interpreted language that executes in a run-time engine. The documentation refers to this run-time engine as the ABL Virtual Machine (AVM). When the documentation refers to ABL source code compilation, it specifies ABL or the compiler as the actor that manages compile-time features of the language. When the documentation refers to run-time behavior in an executing ABL program, it specifies the AVM as the actor that manages the specified run-time behavior in the program.
For example, these sentences refer to the ABL compiler’s allowance for parameter passing and the AVM’s possible response to that parameter passing at run time: “ABL allows you to pass a dynamic temp-table handle as a static temp-table parameter of a method. However, if at run time the passed dynamic temp-table schema does not match the schema of the static temp-table parameter, the AVM raises an error.” The following sentence refers to run-time actions that the AVM can perform using a particular ABL feature: “The ABL socket object handle allows the AVM to connect with other ABL and non-ABL sessions using TCP/IP sockets.”

References to ABL data types

ABL provides built-in data types, built-in class data types, and user-defined class data types. References to built-in data types follow these rules:

- Like most other keywords, references to specific built-in data types appear in all **UPPERCASE**, using a font that is appropriate to the context. No uppercase reference ever includes or implies any data type other than itself.

- Wherever `integer` appears, this is a reference to the `INTEGER` or `INT64` data type.

- Wherever `character` appears, this is a reference to the `CHARACTER`, `LONGCHAR`, or `CLOB` data type.

- Wherever `decimal` appears, this is a reference to the `DECIMAL` data type.

- Wherever `numeric` appears, this is a reference to the `INTEGER`, `INT64`, or `DECIMAL` data type.

References to built-in class data types appear in mixed case with initial caps, for example, `Progress.Lang.Object`. References to user-defined class data types appear in mixed case, as specified for a given application example.

Typographical conventions

This manual uses the following typographical conventions:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bold</strong></td>
<td>Bold typeface indicates commands or characters the user types, provides emphasis, or the names of user interface elements.</td>
</tr>
<tr>
<td><em>Italic</em></td>
<td>Italic typeface indicates the title of a document, or signifies new terms.</td>
</tr>
<tr>
<td>SMALL, BOLD CAPITAL LETTERS</td>
<td>Small, bold capital letters indicate OpenEdge key functions and generic keyboard keys; for example, <code>GET</code> and <code>CTRL</code>.</td>
</tr>
<tr>
<td>KEY1+KEY2</td>
<td>A plus sign between key names indicates a <strong>simultaneous</strong> key sequence: you press and hold down the first key while pressing the second key. For example, <code>CTRL+X</code>.</td>
</tr>
<tr>
<td>Convention</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>KEY1 KEY2</td>
<td>A space between key names indicates a <strong>sequential</strong> key sequence: you press and release the first key, then press another key. For example, <strong>ESCAPE H</strong>.</td>
</tr>
<tr>
<td><strong>Syntax:</strong></td>
<td></td>
</tr>
<tr>
<td>Fixed width</td>
<td>A fixed-width font is used in syntax statements, code examples, system output, and filenames.</td>
</tr>
<tr>
<td><em>Fixed-width italics</em></td>
<td>Fixed-width italics indicate variables in syntax statements.</td>
</tr>
<tr>
<td><em>Fixed-width bold</em></td>
<td>Fixed-width bold indicates variables with special emphasis.</td>
</tr>
<tr>
<td><strong>UPPERCASE fixed width</strong></td>
<td>Uppercase words are ABL keywords. Although these are always shown in uppercase, you can type them in either uppercase or lowercase in a procedure.</td>
</tr>
<tr>
<td>![Icon]</td>
<td>This icon (three arrows) introduces a multi-step procedure.</td>
</tr>
<tr>
<td>![Icon]</td>
<td>This icon (one arrow) introduces a single-step procedure.</td>
</tr>
<tr>
<td>Period (.), or colon (:)</td>
<td>All statements except <strong>DO</strong>, <strong>FOR</strong>, <strong>FUNCTION</strong>, <strong>PROCEDURE</strong>, and <strong>REPEAT</strong> end with a period. <strong>DO</strong>, <strong>FOR</strong>, <strong>FUNCTION</strong>, <strong>PROCEDURE</strong>, and <strong>REPEAT</strong> statements can end with either a period or a colon.</td>
</tr>
<tr>
<td>[]</td>
<td>Large brackets indicate the items within them are optional.</td>
</tr>
<tr>
<td>[]</td>
<td>Small brackets are part of ABL.</td>
</tr>
<tr>
<td>{}</td>
<td>Large braces indicate the items within them are required. They are used to simplify complex syntax diagrams.</td>
</tr>
<tr>
<td>{}</td>
<td>Small braces are part of ABL. For example, a called external procedure must use braces when referencing arguments passed by a calling procedure.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>...</td>
<td>Ellipses indicate repetition: you can choose one or more of the preceding items.</td>
</tr>
</tbody>
</table>
Examples of syntax descriptions

In this example, ACCUM is a keyword, and aggregate and expression are variables:

Syntax

\[ \text{ACCUM aggregate expression} \]

FOR is one of the statements that can end with either a period or a colon, as in this example:

Syntax

\[ \text{FOR EACH Customer NO-LOCK:} \]
\[ \text{DISPLAY Customer.Name.} \]
\[ \text{END.} \]

In this example, STREAM stream, UNLESS-HIDDEN, and NO-ERROR are optional:

Syntax

\[ \text{DISPLAY \{ STREAM stream \} \{ UNLESS-HIDDEN \} \{ NO-ERROR \}} \]

In this example, the outer (small) brackets are part of the language, and the inner (large) brackets denote an optional item:

Syntax

\[ \text{INITIAL \{ constant \{ , constant \} \}} \]

A called external procedure must use braces when referencing compile-time arguments passed by a calling procedure, as shown in this example:

Syntax

\[ \{ &\text{argument-name} \} \]

In this example, EACH, FIRST, and LAST are optional, but you can choose only one of them:

Syntax

\[ \text{PRESELECT \{ EACH \| FIRST \| LAST \} record-phrase} \]

In this example, you must include two expressions, and optionally you can include more. Multiple expressions are separated by commas:

Syntax

\[ \text{MAXIMUM \{ expression , expression \{ , expression \} \ldots \}} \]
In this example, you must specify MESSAGE and at least one expression or SKIP \((n)\), and any number of additional expression or SKIP \((n)\) is allowed:

**Syntax**

```
MESSAGE { expression | SKIP [ (n) ] } ...
```

In this example, you must specify \{include-file, then optionally any number of argument of &argument-name = "argument-value", and then terminate with \}:

**Syntax**

```
{ include-file
  [ argument | &argument-name = "argument-value" ] ... }
```

**Long syntax descriptions split across lines**

Some syntax descriptions are too long to fit on one line. When syntax descriptions are split across multiple lines, groups of optional and groups of required items are kept together in the required order.

In this example, WITH is followed by six optional items:

**Syntax**

```
WITH [ ACCUM max-length ] [ expression DOWN ]
[ CENTERED ] [ n COLUMNS ] [ SIDE-LABELS ]
[ STREAM-IO ]
```

**Complex syntax descriptions with both required and optional elements**

Some syntax descriptions are too complex to distinguish required and optional elements by bracketing only the optional elements. For such syntax, the descriptions include both braces (for required elements) and brackets (for optional elements).

In this example, ASSIGN requires either one or more field entries or one record. Options available with field or record are grouped with braces and brackets:

**Syntax**

```
ASSIGN { [ FRAME frame ] { field [ = expression ] } }
  [ WHEN expression ] } ...
  [ { record [ EXCEPT field ... ] } ]
```
OpenEdge messages

OpenEdge displays several types of messages to inform you of routine and unusual occurrences:

- **Execution messages** inform you of errors encountered while OpenEdge is running a procedure; for example, if OpenEdge cannot find a record with a specified index field value.

- **Compile messages** inform you of errors found while OpenEdge is reading and analyzing a procedure before running it; for example, if a procedure references a table name that is not defined in the database.

- **Startup messages** inform you of unusual conditions detected while OpenEdge is getting ready to execute; for example, if you entered an invalid startup parameter.

After displaying a message, OpenEdge proceeds in one of several ways:

- Continues execution, subject to the error-processing actions that you specify or that are assumed as part of the procedure. This is the most common action taken after execution messages.

- Returns to the Procedure Editor, so you can correct an error in a procedure. This is the usual action taken after compiler messages.

- Halts processing of a procedure and returns immediately to the Procedure Editor. This does not happen often.

- Terminates the current session.

OpenEdge messages end with a message number in parentheses. In this example, the message number is 200:

```
** Unknown table name table. (200)
```

If you encounter an error that terminates OpenEdge, note the message number before restarting.
Obtaining more information about OpenEdge messages

In Windows platforms, use OpenEdge online help to obtain more information about OpenEdge messages. Many OpenEdge tools include the following Help menu options to provide information about messages:

- Choose Help→ Recent Messages to display detailed descriptions of the most recent OpenEdge message and all other messages returned in the current session.

- Choose Help→ Messages and then type the message number to display a description of a specific OpenEdge message.

- In the Procedure Editor, press the HELP key or F1.

On UNIX platforms, use the OpenEdge pro command to start a single-user mode character OpenEdge client session and view a brief description of a message by providing its number.

To use the pro command to obtain a message description by message number:

1. Start the Procedure Editor:

   OpenEdge-install-dir/bin/pro

2. Press F3 to access the menu bar, then choose Help→ Messages.

3. Type the message number and press ENTER. Details about that message number appear.

4. Press F4 to close the message, press F3 to access the Procedure Editor menu, and choose File→ Exit.
Getting Started with Multi-tenancy in the Database Administration Console

OpenEdge Management/OpenEdge Explorer now includes the Database Administration Console, the configuration tool that allows you to manage and work with databases enabled for multi-tenancy. Integrated into the OpenEdge Management/OpenEdge Explorer management console, the Database Administration Console allows you to perform a variety of different tasks related to multi-tenancy, such as configure connections for local and remote databases; work with database tenants, sequences, users, domains, and groups; update database schema, and create and work with tenant templates.

This guide is intended to get you started with setting up a multi-tenant database and lead you to the point where you can work with the database and its tenants, users, and contents. The guide is designed to be used in conjunction with OpenEdge Management and OpenEdge Explorer: Configuring Multi-tenancy.

The guide begins with an overview section and then takes you through the following steps:

- Step 1: Starting the Database Administration Console in OpenEdge Management or OpenEdge Explorer
- Step 2: Accessing the Database Administration Console
- Step 3: Adding a database connection
- Step 4: Enabling the database for multi-tenancy
- Step 5: Creating a super-tenant
- Step 6: Creating a domain for the super-tenant
- Step 7: Adding a user for the super-tenant
Chapter 1: Getting Started with Multi-tenancy in the Database Administration Console

- Step 8: Setting up the super-tenant’s database login user credentials
- Step 9: Creating a regular tenant, its domain, and its users
- Step 10: Enabling tables for multi-tenancy
Overview

The focus of this guide is on getting you up and running with a database enabled for multi-tenancy. The guide begins at the point at which you’ve completed your OpenEdge installation and are logging into the Database Administration Console, which is a component of the larger OpenEdge Management or OpenEdge Explorer management console. As you follow the steps provided, you will be guided through setting up a database connection; setting up a super-tenant, its domain, and its users; establishing secure login credentials for the super-tenant; and converting existing tables so that they are enabled for multi-tenancy and/or creating new tables and then enabling them.

This guide does not tell you how to perform the various tasks related to multi-tenancy. Instead, this guide provides you with a roadmap and recommendations for starting to work with multi-tenancy. Included are the tasks you must perform to configure a database for multi-tenancy and then be able to work with and manage tenants and data in the database.

Step 1: Starting the Database Administration Console in OpenEdge Management or OpenEdge Explorer

Once you complete the OpenEdge installation, you can start the Database Administration Console in OpenEdge Management or OpenEdge Explorer. Note that this guide refers to two consoles:

- The OpenEdge Management and OpenEdge Explorer management console, which comprises functionality for following areas, as indicated by the tabs in the menu bar: My Dashboard, Resources, Alerts, Library, Reports, Jobs, Database Administration, Options, and Help:
Chapter 1: Getting Started with Multi-tenancy in the Database Administration Console

- The Database Administration Console, accessible from within the management console by the **Database Administration** tab:

![Database Administration tab](image)

The management console and the Database Administration Console look the same in OpenEdge Explorer as they do in OpenEdge Management. The only difference you find when using OpenEdge Explorer is that any OpenEdge Management-only functionality is disabled in the management console when you do not have the required OpenEdge Management license.

OpenEdge Management/OpenEdge Explorer runs in a Web browser, making it accessible in Windows and on supported UNIX platforms. It is recommended that you use a recent version of a common Web browser to take full advantage of the functionality.

To start the Database Administration Console in OpenEdge Management or OpenEdge Explorer in a browser and then log in:

1. Choose one:
   - Open a Web browser, and enter the URL `http://host:port` in the address or location field. The host is the name of the machine where OpenEdge Management/OpenEdge Explorer is installed; the default port is 9090.
   - From the Windows Desktop on your local host, select **Start** → **Programs** (or **All Programs**) → **Progress** → **OpenEdge** → **Database Administration Console** to start OpenEdge Management/OpenEdge Explorer.

   If you have only OpenEdge Explorer installed, select **Start** → **Programs** (or **All Programs**) → **Progress** → **OpenEdge** → **OpenEdge Explorer**.

   The logon window appears.

2. Provide the user name and password. The first time you log on to OpenEdge Management or OpenEdge Explorer, you must use the default user name, which is **admin**, and the default password, which is **admin**.
3. Do the following:
   
a. Complete the **OpenEdge Management Configuration** page to make your initial configuration choices.
   
   This includes resetting your login password, choosing whether to have OpenEdge Management or OpenEdge Explorer start automatically, choosing a location for the OpenEdge Management Trend Database, specifying the Web server port, choosing the e-mail server and default email recipient, and establishing SNMP Adapter settings.
   
   Click **Submit**.
   
   For details, see: [Choosing initial configuration options](#)
   
   b. Complete the **Getting Started** page (OpenEdge Management only).
   
   This includes adding one or more external databases and defining monitoring and trending options for file systems and disks.
   
   Click **Submit**.
   
   For details, see: [Setting up the Getting Started page for OpenEdge Management](#)
   
4. Click **OK** to restart the Web server, and then log in with your user name and new password.

**Step 2: Accessing the Database Administration Console**

Once you log in, you can begin working with multi-tenancy in the Database Administration Console.

From the management console menu bar, click the **Database Administration** tab. A **Connections** view opens in the left pane.
Step 3: Adding a database connection

To work with a database in the Database Administration Console, you must have a connection established for it.

You can configure any of the following database connections:

- A managed connection, which refers to a database that is either of the following:
  - **Managed database** — A database that is being managed by OpenEdge Management or OpenEdge Explorer. The database can reside on the local host or on a remote container. For a managed database, the connection is made through shared memory.
  - **Scripted database** — A database that you start with a script outside of the OpenEdge Management or OpenEdge Explorer environment. The database can reside on the local host or on a remote container.

- An unmanaged database connection, which refers to a database that:
  - Is not being managed by OpenEdge Management or OpenEdge Explorer.
  - You are using only to perform database administration tasks related to multi-tenancy.

This type of database connection is new in this release of OpenEdge.

Decide if the connection you are setting up will be to a database on a local machine or a remote machine. If you want to set up a connection to a database on a remote machine, you must **first** set up remote configuration.

You can then set up the local or remote database connection.

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<tr>
<th>For details about, setting up remote configuration before setting up the database connection, see:</th>
<th>1. Reviewing the remote configuration requirements</th>
</tr>
</thead>
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<td>2. Ungluing OpenEdge Management/OpenEdge Explorer from OpenEdge</td>
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<td></td>
<td>3. Setting up the local host machine</td>
</tr>
<tr>
<td></td>
<td>4. Setting up the remote container</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For details about setting up a database connection, see:</th>
<th>Setting up the connection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>User credentials considerations</td>
</tr>
</tbody>
</table>
Step 4: Enabling the database for multi-tenancy

You can enable a database for multi-tenancy in either of the following ways:

- By using the following command from the folder where the database resides:

  ```bash
  proutil <database-name> -C enableMultitenancy
  ```

- From the Database Administration Console.

For details, see: Enabling a database for multi-tenancy

Step 5: Creating a super-tenant

Once you enable a database for multi-tenancy, create a super-tenant.

There are three varieties of tenants:

- **Super-tenant** — A tenant that does not have its own data but can access all shared tables and all multi-tenant data in the database.

- **Regular tenant** — A tenant that can access its own data, data for any other tenants in the same tenant group, or data in shared tables. (A shared table is one whose data is available to all tenants in the database.)

- **Default tenant** — A tenant that does not establish tenancy as part of authentication to the database. Because the user has not established tenancy, the default tenant can access only shared table data within the database or the default partition of a multi-tenant table. There is only one default tenant per multi-tenant database.

It is recommended that you set up at least one super-tenant to manage the database, and it is likely that you will want to set up at least one regular tenant as well.

For details, see: Creating a new tenant for a multi-tenant database
Chapter 1: Getting Started with Multi-tenancy in the Database Administration Console

Step 6: Creating a domain for the super-tenant

For each tenant, you must create a domain. There are several predefined domains available for the database, or you can create your own. You can have multiple domains per tenant.

Start by creating a domain for the super-tenant.

For details, see:  Adding a tenant domain

Step 7: Adding a user for the super-tenant

Once you have added a domain, you must create a user who can log in to the super-tenant in the database. You can have multiple users per domain.

For details, see:  Adding a user to a tenant

Step 8: Setting up the super-tenant’s database login user credentials

By default, connections for databases defined in OpenEdge Management/OpenEdge Explorer use the blank user ID. In order to access tenant data, you must set up the database connection to use the credentials for either a user for a regular tenant or for a super-tenant. Because super-tenants can access all users’ data, establishing a database connection as a super-tenant will allow you to perform operations such as dumping and loading of data and editing sequences for any tenant. If you establish a connection with the credentials of a user for a regular tenant, you can perform operations for only that tenant.

For details, see:  Setting up a database connection login

Step 9: Creating a regular tenant, its domain, and its users

Once you create and establish credentials for logging in to a super-tenant, create a regular tenant, its domain, and one or more of its users.

For details, see:  
1. Creating a new tenant or tenant program
2. Adding a tenant domain
3. Adding a user to a tenant
**Step 10: Enabling tables for multi-tenancy**

From the management console, you can choose one or more tables not enabled for multi-tenancy, and enable them. You can then make decisions about partition allocation for any of the table’s fields and indexes that have not yet been allocated.

Note that when you enable a table for multi-tenancy, you are affecting all tenants for a selected database.

For details, see: Enabling a table for multi-tenancy
For more information

To locate other sources of information about OpenEdge multi-tenancy, see Chapter 2, “Additional information about multi-tenancy in OpenEdge.”
Additional information about multi-tenancy in OpenEdge

In addition to the getting started information provided in this guide, there are other sources of information available to you about multi-tenancy.

**OpenEdge Management and OpenEdge Explorer: Configuring Multi-tenancy**

Describes in detail how to configure database connections, manage multi-tenancy-enabled databases, work with tenants, upload tenant schema changes, manage users and domains, work with tenant templates and groups, and manage sequences and sequence values.

**OpenEdge Getting Started: Multi-tenancy Overview**

Describes multi-tenancy, provides details about its features, and includes a glossary of terms.

In addition to these documents, several videos related to multi-tenancy are available in this location on Progress Communities:

http://communities.progress.com/pcom/docs/DOC-107262
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OVERVIEW
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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings. This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren’t implemented yet.

For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.
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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.)

So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.

To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact jloup@gzip.org). A usage example of the library is
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given in the file example.c which also tests that the library is working correctly. Another example is given in the file minigzip.c. The compression library itself is composed of all source files except example.c and minigzip.c.

To compile all files and run the test program, follow the instructions given at the top of Makefile. In short "make test; make install" should work for most machines. For Unix: "configure; make test; make install"

For MSDOS, use one of the special makefiles such as Makefile.msc.

For VMS, use Make_vms.com or descrip.mms.

Questions about zlib should be sent to <zlib@quest.jpl.nasa.gov>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version.

The zlib home page is http://www.cdrom.com/pub/infozip/zlib/

The official zlib ftp site is ftp://ftp.cdrom.com/pub/infozip/zlib/

Before reporting a problem, please check those sites to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

Mark Nelson <markn@tiny.com> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available in http://web2.airmail.net/markn/articles/zlibtool/zlibtool.htm

The changes made in version 1.1.3 are documented in the file ChangeLog.

The main changes since 1.1.2 are:

- fix "an inflate input buffer bug that shows up on rare but persistent occasions" (Mark)
- fix gzread and gztell for concatenated .gz files (Didier Le Botlan)
- fix gzseek(..., SEEK_SET) in write mode
- fix crc check after a gzeek (Frank Faubert)
- fix miniunzip when the last entry in a zip file is itself a zip file (J Lilge)
- add contrib/asm586 and contrib/asm686 (Brian Raiter)

See http://www.muppetlabs.com/~breadbox/software/assembly.html

- add support for Delphi 3 in contrib/delphi (Bob Dellaca)
- add support for C++Builder 3 and Delphi 3 in contrib/delphi2 (Davide Moretti)
- do not exit prematurely in untgz if 0 at start of block (Magnus Holmgren)
- use macro EXTERN instead of extern to support DLL for BeOS (Sander Stoks)
- added a FAQ file

plus many changes for portability.
Unsupported third party contributions are provided in directory "contrib". A Java implementation of zlib is available in the Java Development Kit 1.1
http://www.javasoft.com/products/JDK/1.1/docs/api/Package-java.util.zip.html

See the zlib home page http://www.cdrom.com/pub/infozip/zlib/ for details.

A Perl interface to zlib written by Paul Marquess <pmarquess@bfsec.bt.co.uk> is in the CPAN (Comprehensive Perl Archive Network) sites, such as:

A Python interface to zlib written by A.M. Kuchling <amk@magnet.com> is available in Python 1.5 and later versions, see
http://www.python.org/doc/lib/module-zlib.html

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is available at http://www.westend.com/~kupries/doc/trf/man/man.html

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available at
http://www.winimage.com/zLibDll/unzip.html and also in the contrib/minizip directory of zlib.

Notes for some targets:

- To build a Windows DLL version, include in a DLL project zlib.def, zlib.rc and all .c files except example.c and minigzip.c; compile with -DZLIB_DLL

  The zlib DLL support was initially done by Alessandro Iacopetti and is now maintained by Gilles Vollant <info@winimage.com>. Check the zlib DLL home page at http://www.winimage.com/zLibDll

  From Visual Basic, you can call the DLL functions which do not take a structure as argument: compress, uncompress and all gz* functions.

  See contrib/visual-basic.txt for more information, or get http://www.tcfb.com/dowseware/cmp-z-it.zip

- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.

- on Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS, BEOS and by some Mac compilers.

- For Turbo C the small model is supported only with reduced performance to avoid any far allocation; it was tested with -DMAX_WBITS=11 -DMAX_MEM_LEVEL=3

- For PalmOs, see http://www.cs.uit.no/~perm/PASTA/pilot/software.html
  Per Harald Myrvang <perm@stud.cs.uit.no>

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