This web paper describes how to:

- Dynamically execute a procedure
- Execute a user-defined function
- Get or set a handle attribute
- Invoke a handle method
- Invoke a Windows Dynamic Link Library (DLL) routine or invoke a UNIX shared library routine using the call object handle

**Notes:** In the context of this document, *method* refers to a built-in, handle-based ABL method, such as `qryhandle::GET-NEXT()`. You cannot run a class-based method using this feature.

You can, however, dynamically invoke a class-based method using the `DYNAMIC-INVOK function or the `Invoke()` method of the `Progress.Lang.Class` class. For more information, see *OpenEdge Development: ABL Reference.*

This web paper includes the following sections:

- ABL elements related to the call object
- When to use the call object
- Code examples
- Third party acknowledgements
ABL elements related to the call object

The ABL elements related to the call object consist of a statement, a handle, attributes, and methods.

**Note:** For more information on these ABL elements, see *OpenEdge Development: ABL Reference*.

The `CREATE CALL` statement creates a call object, then stores a handle to it in the handle variable you specify.

A call object handle lets you do the following dynamically:

- Invoke an external procedure, internal procedure, or user-defined function
- Invoke a Windows DLL routine or UNIX shared library routine
- Get or set a handle attribute
- Run a handle method

Table 1 lists the attributes of the call object handle.

**Table 1: Attributes of a call object handle**

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASYNCHRONOUS attribute</td>
<td>LOGICAL</td>
<td>Applies only when the logic to be dynamically invoked resides on a Progress AppServer™. Indicates if you want the logic to run asynchronously.</td>
</tr>
<tr>
<td>ASYNC-REQUEST-HANDLE attribute</td>
<td>HANDLE</td>
<td>Applies only when <code>ASYNCHRONOUS</code> is <code>TRUE</code>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A handle to an asynchronous-request object containing detailed information on your asynchronous request.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Set by the INVOKE( ) method when ASYNCHRONOUS is TRUE.</em></td>
</tr>
<tr>
<td>Attribute</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>----------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CALL-NAME attribute</td>
<td>CHARACTER</td>
<td>The name of one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A procedure or user-defined function you want to invoke dynamically</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• An attribute you want to get or set dynamically</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A method you want to invoke dynamically</td>
</tr>
<tr>
<td>CALL-TYPE attribute</td>
<td>INTEGER</td>
<td>Indicates if you are dynamically:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Invoking a procedure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Invoking a user-defined function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Invoking a Windows DLL or UNIX shared library routine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Getting an attribute or invoking a method</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Setting an attribute</td>
</tr>
<tr>
<td>EVENT-PROCEDURE attribute</td>
<td>CHARACTER</td>
<td>Applies only when ASYNCHRONOUS is TRUE.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The name of an internal procedure you want executed when a dynamic, asynchronous invoke completes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note: You must set EVENT-PROCEDURE before you execute INVOKE( )</td>
</tr>
<tr>
<td>EVENT-PROCEDURE-CONTEXT attribute</td>
<td>HANDLE</td>
<td>Applies only when ASYNCHRONOUS is TRUE.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A handle to a running persistent procedure containing an internal procedure you want executed when a dynamic, asynchronous invoke completes.</td>
</tr>
<tr>
<td>HANDLE attribute</td>
<td>HANDLE</td>
<td>A handle to the object.</td>
</tr>
</tbody>
</table>
Table 1: Attributes of a call object handle  

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IN-HANDLE attribute</strong></td>
<td>HANDLE</td>
<td>Contains one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A handle to a persistent, single-run, or singleton procedure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A handle to an object, such as a buffer or socket, whose attributes or methods you want to invoke dynamically</td>
</tr>
<tr>
<td><strong>INSTANTIATING-PROCEDURE attribute</strong></td>
<td>HANDLE</td>
<td>Returns the handle to the procedure in which an object was instantiated.</td>
</tr>
<tr>
<td><strong>IS-PARAMETER-SET attribute</strong></td>
<td>LOGICAL</td>
<td>Indicates if you have already set a particular parameter.</td>
</tr>
<tr>
<td><strong>LIBRARY attribute</strong></td>
<td>CHARACTER</td>
<td>Specifies the name of a Windows DLL or a UNIX shared library.</td>
</tr>
<tr>
<td><strong>LIBRARY-CALLING-CONVENTION attribute</strong></td>
<td>CHARACTER</td>
<td>Specifies the calling convention for a Windows DLL or a UNIX shared library.</td>
</tr>
<tr>
<td><strong>NUM-PARAMETERS attribute</strong></td>
<td>INTEGER</td>
<td>The number of parameters you are passing.</td>
</tr>
<tr>
<td><strong>ORDINAL attribute</strong></td>
<td>INTEGER</td>
<td>Specifies the number of the entry point of the Windows DLL routine to invoke.</td>
</tr>
<tr>
<td><strong>PERSISTENT attribute</strong></td>
<td>LOGICAL</td>
<td>Indicates if you want an external procedure you plan to invoke dynamically to run as persistent.†</td>
</tr>
<tr>
<td><strong>PROCEDURE-TYPE attribute</strong></td>
<td>CHARACTER</td>
<td>Indicates if you want an external procedure you plan to invoke dynamically to run as persistent, single-run, or singleton. Takes values of &quot;PERSISTENT&quot;, &quot;SINGLE-RUN&quot;, or &quot;SINGLETON&quot;, respectively.†</td>
</tr>
</tbody>
</table>
Table 1: Attributes of a call object handle

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETURN-VALUE attribute</td>
<td>RETURN-VALUE-</td>
<td>Applies only to user-defined functions, attributes, and methods. Contains one of the following:</td>
</tr>
<tr>
<td></td>
<td>DATA-TYPE</td>
<td>• The value returned by a user-defined function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The value of an attribute</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The value returned by a method</td>
</tr>
<tr>
<td>RETURN-VALUE-DATA-TYPE</td>
<td>CHARACTER</td>
<td>The data type of the return value.</td>
</tr>
<tr>
<td>attribute</td>
<td></td>
<td>Applies only to user-defined functions, attributes, and methods. If you set this before you execute the INVOKE( ) method, the return value</td>
</tr>
<tr>
<td></td>
<td></td>
<td>is converted to this data type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If you do not set this before you execute the INVOKE( ) method, it indicates the return value’s data type.</td>
</tr>
<tr>
<td>RETURN-VALUE-DLL-TYPE</td>
<td>CHARACTER</td>
<td>Specifies the expected data type returned from a Windows DLL routine.</td>
</tr>
<tr>
<td>attribute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SERVER attribute</td>
<td>HANDLE</td>
<td>A handle to an AppServer containing logic you want to invoke dynamically.</td>
</tr>
<tr>
<td>TYPE attribute</td>
<td>CHARACTER</td>
<td>The type of a handle.</td>
</tr>
</tbody>
</table>

1. See the “Running an internal procedure of a persistent external procedure” section on page 10 for details on how the PERSISTENT and PROCEDURE-TYPE attributes interact.
Table 2 lists the methods of a call object handle.

Table 2:  Methods of a call object handle

<table>
<thead>
<tr>
<th>Method</th>
<th>Return Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEAR( ) method</td>
<td>LOGICAL</td>
<td>Resets each attribute of the call object to its default value.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> To reset just the parameters, set the NUM-PARAMETERS attribute to zero.</td>
</tr>
<tr>
<td>INVOKE( ) method</td>
<td>None</td>
<td>Lets you dynamically do the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Invoke an external procedure, internal procedure, or user-defined function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Get or set an attribute</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Invoke a method</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> INVOKE( ) cannot occur within an expression.</td>
</tr>
<tr>
<td>SET-PARAMETER( ) method</td>
<td>LOGICAL</td>
<td>Lets you set parameters for one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A procedure or user-defined function you want to invoke dynamically</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• An attribute you want to get or set dynamically</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A method you want to invoke dynamically</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A Windows DLL routine or a UNIX shared library routine you want to invoke dynamically</td>
</tr>
</tbody>
</table>


When to use the call object

For some use cases, programming with the call object requires more lines of code than other ABL alternatives. Table 3 shows an example of the code required to invoke an external procedure dynamically and statically.

Table 3: Invoking hello.p dynamically and statically

<table>
<thead>
<tr>
<th>Dynamic invoke</th>
<th>Static invoke</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFINE VARIABLE hCall AS HANDLE</td>
<td>RUN hello.p (&quot;Hello world&quot;).</td>
</tr>
<tr>
<td>NO-UNDO.</td>
<td></td>
</tr>
<tr>
<td>CREATE CALL hCall.</td>
<td></td>
</tr>
<tr>
<td>/* Invoke hello.p non-persistently */</td>
<td></td>
</tr>
<tr>
<td>ASSIGN</td>
<td></td>
</tr>
<tr>
<td>hCall:CALL-NAME = &quot;hello.p&quot;</td>
<td></td>
</tr>
<tr>
<td>hCall:NUM-PARAMETERS = 1.</td>
<td></td>
</tr>
<tr>
<td>hCall:SET-PARAMETER (1, &quot;CHARACTER&quot;, &quot;INPUT&quot;, &quot;Hello world&quot;).</td>
<td></td>
</tr>
<tr>
<td>hCall:INVOKE( ).</td>
<td></td>
</tr>
<tr>
<td>/* Clean up */</td>
<td></td>
</tr>
<tr>
<td>DELETE OBJECT hCall.</td>
<td></td>
</tr>
</tbody>
</table>

As Table 3 illustrates, executing hello.p dynamically using the call object requires many more lines of code and is therefore less efficient than doing it with static invoke. Consider using the call object for these situations:

- To invoke an internal or external procedure whose calling sequence (number of parameters and the data type of each) is unknown at compile time

  **Note:** If the only the name of the procedure is unknown at compile time, use the RUN statement with the VALUE option, and avoid using the call object.

- To invoke a function whose calling sequence is unknown at compile time

  **Note:** If the only the name of the function is unknown at compile time, use the DYNAMIC-FUNCTION( ) function, and avoid using the call object.

- To reference a widget attribute or method whose name is unknown at compile time.

  If you already know the name of the attribute or procedure, then you also know its syntax, since the name implies certain syntax. If you know the syntax, then you know the calling sequence, since the syntax defines the calling sequence. If you know the calling sequence, you can use widget:attribute or widget:method syntax, and avoid using the call object.

- To dynamically invoke a Windows DLL routine or a UNIX shared library routine when the following is true:

  - The number of parameters and their data type is only known at run time
When to use the call object

- The routine exists in both a Windows DLL and a UNIX shared library
- The routine has a variable number of parameters
Code examples

The following code examples show some ways in which the call object can be used:

- Running an internal procedure of a persistent external procedure
- Running an internal procedure of a single-run or singleton procedure
- Using a call object multiple times
- Getting an attribute
- Setting an attribute
- Multiple dynamic invokes from a temp-table
- Invoking a Windows DLL routine
- Implementing a sleep timer

Running an internal procedure of a persistent external procedure

The following example, which illustrates using a single call object multiple times, is a bit more complicated than that shown in Table 1. This example also shows how to:

- Dynamically invoke the external procedure `persis.p` persistently
- Dynamically invoke an internal procedure of `persis.p, internal-persis-proc`, with an input parameter of type "INTEGER" and with the value 333

```
DEFINE VARIABLE hCall AS HANDLE NO-UNDO.
CREATE CALL hCall.
/* Invoke persis.p persistently */
ASSIGN
  hCall:CALL-NAME = 'persis.p'
/* Sets CALL-TYPE to the default */
  hCall:CALL-TYPE = PROCEDURE-CALL-TYPE
  hCall:PERSISTENT = TRUE.

hCall:INVOKE.
/* Invoke internal-persis-proc in persis.p */
ASSIGN
  hCall:CALL-NAME = 'internal-persis-proc'
/* Sets CALL-TYPE to the default */
  hCall:CALL-TYPE = PROCEDURE-CALL-TYPE
  hCall:NUM-PARAMETERS = 1.

  hCall:SET-PARAMETER(1, "INTEGER", "INPUT", 333).
  hCall:INVOKE( ).
/* Clean up */
DELETE PROCEDURE hCall:IN-HANDLE.
DELETE OBJECT hCall.
```
When `persis.p` is invoked dynamically, the handle of the running persistent procedure is stored automatically in the call object's `IN-HANDLE` attribute. When `internal-persis-proc` is invoked dynamically, ABL knows it resides in the running persistent procedure whose handle is stored in the call object's `IN-HANDLE` attribute.

You can also run a procedure persistently by setting the `PROCEDURE-TYPE` attribute to "PERSISTENT". Setting the `PROCEDURE-TYPE` attribute to "PERSISTENT" and setting the `PERSISTENT` attribute to "TRUE" are equivalent, and setting one will automatically set the other. Setting the two attributes to conflicting values, e.g., `PROCEDURE-TYPE` to "SINGLETON" and `PERSISTENT` to `TRUE`, will cause a run-time error.

Running an internal procedure of a single-run or singleton procedure

The following example shows how to dynamically invoke a procedure as single-run and then dynamically invoke an internal procedure of the single-run. The same syntax can be used to call a procedure as persistent or singleton by setting `PROCEDURE-TYPE` to "PERSISTENT" or "SINGLETON", respectively.

```abl
DEFINE VARIABLE hCall AS HANDLE NO-UNDO.

CREATE CALL hCall.

/* Invoke single.p as single-run*/
ASSIGN
   hCall:CALL-NAME = "single.p"
/* Sets CALL-TYPE to the default */
   hCall:CALL-TYPE = PROCEDURE-CALL-TYPE
   hCall:PROCEDURE-TYPE = SINGLE-RUN.

hCall:INVOKE.

/* Invoke internal-single-proc in single.p */
ASSIGN
   hCall:CALL-NAME = "internal-single-proc"
/* Sets CALL-TYPE to the default */
   hCall:CALL-TYPE = PROCEDURE-CALL-TYPE
   hCall:NUM-PARAMETERS = 1.
   hCall:SET-PARAMETER(1, "INTEGER", "INPUT", 333).
   hCall:INVOKE().

/* Clean up */
DELETE PROCEDURE hCall:IN-HANDLE.
DELETE OBJECT hCall.
```

Using a call object multiple times

This example further demonstrates using a call object multiple times by:

1. Dynamically invoking the procedure file `hello.p` with the "CHARACTER" input parameter, string "HELLO WORLD"
2. Dynamically invoking the external procedure `persis.p` persistently
3. Dynamically invoking an internal procedure of `persis.p`, `internal-persis-proc`, with an input parameter of type "INTEGER" and with the value 333

```
DEFINE VARIABLE hCall AS HANDLE NO-UNDO.

CREATE CALL hCall.

/* Invoke hello.p nonpersistently */
ASSIGN
  hCall:CALL-NAME = "hello.p"
/* Set CALL-TYPE to the default */
  hCall:CALL-TYPE = PROCEDURE-CALL-TYPE
  hCall:NUM-PARAMETERS = 1.

hCall:SET-PARAMETER(1, "CHARACTER", "INPUT", "HELLO WORLD").
hCall:INVOKE( ).
/* Reset the call object handle */
hCall:CLEAR( ).

/* Invoke persis.p persistently */
ASSIGN
  hCall:CALL-NAME = "persis.p"
/* Set CALL-TYPE to the default */
  hCall:CALL-TYPE = PROCEDURE-CALL-TYPE
  hCall:PERSISTENT = TRUE.

hCall:INVOKE.

/* Invoke internal-persis-proc in persis.p */
ASSIGN
  hCall:CALL-NAME = "internal-persis-proc"
/* Set CALL-TYPE to the default */
  hCall:CALL-TYPE = PROCEDURE-CALL-TYPE
  hCall:NUM-PARAMETERS = 1.

hCall:SET-PARAMETER(1, "INTEGER", "INPUT", 333).
hCall:INVOKE( ).
/* Clean up */
DELETE PROCEDURE hCall:IN-HANDLE.
DELETE OBJECT hCall.
```

This example resets the call object handle by using the CLEAR( ) method between invoking hello.p (the first invoke) and invoking persis.p (the second invoke).
Getting an attribute

This example gets the current value of the TITLE attribute of a frame. The call object's CALL-TYPE attribute is set to GET-ATTR-CALL-TYPE. The value of the TITLE attribute is returned through the call object's RETURN-VALUE attribute, as shown:

```plaintext
/* Get title of frame */
ASSIGN
  hCall:IN-HANDLE = myframe_handle
  hCall:CALL-TYPE = GET-ATTR-CALL-TYPE
  hCall:CALL-NAME = "TITLE".
  hCall:INVOKE( ).
  Mytitle = hCall:RETURN-VALUE.
```

Setting an attribute

This example sets the SESSION handle's NUMERIC-FORMAT attribute to "european":

```plaintext
/* Set SESSION:NUMERIC-FORMAT to "european" */
ASSIGN
  hCall:IN-HANDLE = "session"
  hCall:CALL-TYPE = SET-ATTR-CALL-TYPE
  hCall:CALL-NAME = "numeric-format"
  hCall:NUM-PARAMETERS = 1.
  hCall:SET-PARAMETER(1, "CHARACTER", "INPUT", "european").
  hCall:INVOKE( ).
```

In contrast to the "Getting an attribute" example, this "Setting an attribute" example:

- Sets the CALL-TYPE attribute to SET-ATTR-CALL-TYPE
- Sets the NUM-PARAMETERS attribute to 1
- Runs the SET-PARAMETER( ) method to make the first parameter an INPUT parameter of data type CHARACTER with the value "european"
Multiple dynamic invokes from a temp-table

This example shows how a series of dynamic invokes of the call object can be set up using a temp-table, ttParam, whose handle is passed into the procedure:

```plaintext
/* ttParam is a temp-table that has one record with these fields:
   parm_1
   parm_2
   ...
   parm_n
   run-name
   nparms
   datatypes, extent nparms
   iomodes, extent nparms
*/
DEFINE INPUT PARAMETER TABLE-HANDLE ttParam NO-UNDO.

DEFINE VARIABLE hCall AS HANDLE NO-UNDO.
DEFINE VARIABLE hDtypes AS HANDLE NO-UNDO.
DEFINE VARIABLE hIOModes AS HANDLE NO-UNDO.
DEFINE VARIABLE ix AS INTEGER NO-UNDO.

ASSIGN
   hDtypes = ttParam:BUFFER-FIELD("datatypes")
   hIOModes = ttParam:BUFFER-FIELD("iOmodes").

ttParam:FIND-FIRST.
CREATE CALL hCall.
ASSIGN
   hCall:CALL-NAME = ttParam:BUFFER-FIELD("run-name"):BUFFER-VALUE
   hCall:NUM-PARAMETERS = ttParam:BUFFER-FIELD("nparms"):BUFFER-VALUE.

FOR ix = 1 TO hCall:NUM-PARAMETERS:
   hCall:SET-PARAMETER(ix, hDtypes:BUFFER-VALUE(ix),
END.

hCall:INVOKE( ).
DELETE OBJECT hCall.
```

To implement this example, you must:

1. Define a temp-table record structure where each field represents one data item involved in dynamic invoke
2. Load the temp-table with a row of data for each dynamic invoke to be performed
3. Read the temp-table and performing a dynamic invoke for every record

Setting up a temp-table in this way allows an application to perform any number of dynamic invokes on the fly.
Invoking a Windows DLL routine

The following example demonstrates the use of the RETURN-VALUE-DLL-TYPE attribute and the RETURN-VALUE attribute when invoking a Windows DLL routine. RETURN-VALUE-DLL-TYPE is set to "LONG", which is the value that the DLL routine expects to receive. For example:

```assembly
FUNCTION GetWinVersion RETURNS INTEGER:
    DEFINE VARIABLE cValue AS CHARACTER NO-UNDO.
    DEFINE VARIABLE libName AS CHARACTER NO-UNDO.
    DEFINE VARIABLE hCall AS HANDLE NO-UNDO.

    CREATE CALL hCall.
    ASSIGN
        hCall:CALL-NAME = "GetVersion"
        hCall:LIBRARY = "kernel32.dll"
        hCall:CALL-TYPE = DLL-CALL-TYPE
        hCall:RETURN-VALUE-DLL-TYPE = "LONG".

    hCall:INVOKE( ).
    cValue = hCall:RETURN-VALUE.

    DELETE OBJECT hCall.
    RETURN cValue.
END FUNCTION.
```

After the invoke, RETURN-VALUE contains the "INTEGER" data type.

Implementing a sleep timer

The following example implements the user-defined function sleep, which causes the AVM to sleep for a specified number of milliseconds:

```assembly
FUNCTION sleep RETURNS INTEGER (msecs AS INTEGER):
    DEFINE VARIABLE cFunction AS CHARACTER NO-UNDO INITIAL "sleep".
    DEFINE VARIABLE cLibrary AS CHARACTER NO-UNDO INITIAL "libc.so.1".
    DEFINE VARIABLE hCall AS HANDLE NO-UNDO.

    CREATE CALL hCall.
    ASSIGN
        cLibrary = "kernel32.dll" WHEN OPSYS = "WIN32"
        cFunction = "Sleep" WHEN OPSYS = "WIN32"
        hCall:CALL-NAME = cFunction
        hCall:LIBRARY = cLibrary
        hCall:CALL-TYPE = DLL-CALL-TYPE
        hCall:NUM-PARAMETERS = 1.

    hCall:SET-PARAMETER(1, "LONG", "INPUT", msecs).
    hCall:INVOKE( ).

    DELETE OBJECT hCall.
    RETURN msecs.
END FUNCTION.
```

Note that the code determines on which OS it is running, and invokes the appropriate Windows DLL or UNIX shared library.
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OVERVIEW
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 "rdjpgo" and "wrjpgo", 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
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So far as we are aware, there are no patent restrictions on the remaining code.

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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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zlib 1.1.3 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format). These documents are also available in other formats from ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html

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
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 Bottlan)
- 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 Lillge)
- 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
Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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