

4D for OCI®

Language Reference Windows Version



4D for OCI Language Reference ***Version 6.7.1 for Windows®***

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1

Introduction

4D for OCI is a set of 4th Dimension external routines that allows a 4th Dimension database to communicate with an Oracle database. Using 4D for OCI, your 4th Dimension database can display, manipulate, and modify data stored in an Oracle database.

About this manual

This manual details implementing, using, and modifying systems that integrate an Oracle server with a 4th Dimension database.

The manual is written for users already familiar with the 4th Dimension language as well as with Oracle's SQL language. We recommend that new users familiarize themselves with both products before continuing with this manual.

The '4D for OCI topics' section of this manual makes reference to the OCI manual provided by Oracle Corp.; this manual is required.

Note: The commands in this manual contain links to the commands found in the the OCI manual provided by Oracle Corp. If you wish to use these links, make sure that the 4D for OCI documentation is in the same folder as the OCI manual provided by Oracle Corp. Also, in order for the links to work properly, it is important not to modify the file names of the two manuals.

Cross-Platform

Since Oracle OCIs are not currently available for Macintosh, the 4D for OCI plug-in is only available for PC. However, in order to allow opening 4D methods in client/server or on Macintosh without losing the 4D for OCI plug-in commands, we provide a Macintosh plug-in that is code free and does not allow any dialog with Oracle.

4th Dimension and 4D for OCI

4D for OCI can be used with either 4th Dimension or 4D Server. When used with 4D for OCI, 4th Dimension enables you to create a database that can become a client of the Oracle database. Each user with a copy of the database can connect to and use the Oracle database simultaneously.

4D Server allows you to create a multi-developer database application.

When used with 4D for OCI, 4D Server allows multiple developers to connect to an Oracle database.

In this manual, 4th Dimension and 4D Server are both referred to as 4th Dimension except when there is a difference between the two products.

Conventions

This manual uses certain conventions to help you understand the material.

The following explanatory notes are used:

Note: Text emphasized like this provides annotations and shortcuts that will have you use 4th Dimension more effectively.

Warning: Warnings like this alert you to situations where data might be lost.

In this manual, 4D for OCI commands are printed in all uppercase letters, for example: OCIRawPtr.

In addition, all table names are shown in brackets in the text to help distinguish them from the names of fields, forms, and other items. For instance, the "Companies" table is written as the [Companies] table.

Overview

4D for OCI is a set of 4th Dimension external routines that allow a 4th Dimension database to communicate with an Oracle database. Using 4D for OCI, your 4th Dimension database can display, manipulate, and modify data stored in an Oracle database.

With 4D for OCI, 4th Dimension becomes a front-end to an Oracle database. This configuration allows you to do the following:

- Present a fully customized 4th Dimension interface, complete with custom menus and forms,
- Use the data storage and disk access capabilities of Oracle to create a powerful data management system.
- Create multiple 4th Dimension databases that access the same Oracle database.

Using OCI and supporting SQL*Net

4D for OCI uses Oracle Call Interfaces (OCI) to take full advantage of Oracle features. 4D for OCI requires the OCI driver file provided by Oracle Corporation. This driver file works with Oracle as well as SQL*Net.

Note: The minimum version of OCI is 8.1.6.

4D for OCI can be used with either 4th Dimension or 4D Server. When used with 4D for OCI, 4th Dimension enables you to create a database that can become a client of the Oracle database. Each user with a copy of the database can simultaneously connect to and use the Oracle database.

4D Server enables you to create a multi-developer database application. When used with 4D for OCI, 4th Dimension and 4D Server allow multiple developers to connect to an Oracle database. Although the clients are still connected to a server running 4th Dimension, the clients communicate directly with the Oracle server to display and modify data.

Presentation

4D, SA provides a 4D component allowing easy migration from 4D for Oracle to 4D for OCI: OCI_Mapper. It is strongly advised to read the 4D Insider manual for more information on components and their installation.

OCI_Mapper redirects 4D for Oracle commands to 4D for OCI commands.

The component source code is open; you may very well be inspired for your own developments.

Installation

It is important to respect the following order as not to lose the tokenization of 4D for Oracle commands.

1. Open the database with 4D Insider.
2. Install the OCI_Mapper component.
3. Quit 4D Insider.
4. Remove 4D for Oracle from the Win4DX and Mac4DX folders.
5. Install the 4D for OCI plug-in in the Win4DX folder.
6. Open the database with 4D.

Important: It is important that you call the *InitVarOCI* method from the "On startup" database method in order to initialize the component before using it.

Limitations

OCI_Mapper does not support context and high-level environments. The supported commands are thus low-level:

- OD BIND TOWARDS 4D
- OD BIND TOWARDS SQL
- OD Create cursor
- OD Cursor state
- OD DROP CURSOR
- OD EXECUTE CURSOR
- OD GET COLUMN ATTRIBUTES
- OD Get column title
- OD Load rows cursor
- OD Login
- OD login dialog
- OD LOGOUT
- OD Number of columns
- OD Set SQL in cursor.

OCI_Mapper cannot be used in conjunction with 4D for Oracle.

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Using OCI parameters

The structure of dates is different between 4D and Oracle. Oracle includes the time in date fields while 4D sets a specific variable for time. As a result, when passing OCI date parameters, the Oracle dates were divided into date and time.

Example

The [OCIDateToText](#) command initially accepts a date (*date*) as the second parameter and then its format (*fmt*) as the third parameter.

As for 4D for OCI, the date (*date*) parameter becomes two different parameters for date and time and the format parameter becomes the fourth parameter.

Once a text parameter is passed, the OCIs wait after a parameter specifying the length of the text. 4D for OCI handles the passage of this parameter, which means that the developer no longer has to pass it.

Example

The [OCILogon](#) command initially accepts the username (*username*) as the third parameter and its length (*uname_len*) as the fourth parameter. In this case, 4D for OCI frees the developer from passing the length parameter. Thus, the fourth parameter becomes the password (*password*).

3

Connection

OCIReset

Connection
version 6.7.1

OCIReset (hdlp; errhp) → status

| Parameter | Type | |
|-----------|---------|---|
| hdlp | Longint | → |
| errhp | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIReset](#) in the documentation provided by Oracle Corp.

OCISessionEnd (svchp; errhp; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | ↔ |
| errhp | Longint | ↔ |
| mode | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCISessionEnd](#) in the documentation provided by Oracle Corp.

OCI`SessionBegin` (svchp; errhp; usrhp; credt; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| usrhp | Longint | ↔ |
| credt | Longint | → |
| mode | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCI`SessionBegin`](#) in the documentation provided by Oracle Corp.

OCI`ServerDetach` (sr`vh`p; err`h`p) → status

| Parameter | Type | |
|----------------------|---------|---|
| sr <code>vh</code> p | Longint | → |
| err <code>h</code> p | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCI`ServerDetach`](#) in the documentation provided by Oracle Corp.

OCI Server Attach (srvhp; errhp; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| srvhp | Longint | → |
| errhp | Longint | ↔ |
| mode | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCI Server Attach](#) in the documentation provided by Oracle Corp.

OCIPasswordChange (svchp; errhp; user_name; opasswd; npasswd; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| user_name | String | → |
| opasswd | String | → |
| npasswd | String | → |
| mode | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIPasswordChange](#) in the documentation provided by Oracle Corp.

OCIParamSet (hndlp; errhp; dscp; pos) → status

| Parameter | Type | |
|-----------|---------|---|
| hndlp | Longint | ↔ |
| errhp | Longint | ↔ |
| dscp | Longint | → |
| pos | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIParamSet](#) in the documentation provided by Oracle Corp.

OCIParamGet (hndlp; errhp; parmdpp; pos) → status

| Parameter | Type | |
|-----------|---------|---|
| hndlp | Longint | → |
| errhp | Longint | ↔ |
| parmdpp | Longint | ← |
| pos | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIParamGet](#) in the documentation provided by Oracle Corp.

OCILogon (envhp; errhp; svchp; username; password; dbname) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | → |
| errhp | Longint | → |
| svchp | Longint | → |
| username | String | → |
| password | String | → |
| dbname | String | → |
| status | Longint | ← |

Description

Please refer to the command [OCILogon](#) in the documentation provided by Oracle Corp.

OCILogoff (svchp; errhp) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCILogoff](#) in the documentation provided by Oracle Corp.

OCIBreak (hndlp; errhp) → status

| Parameter | Type | |
|-----------|---------|---|
| hndlp | Longint | ↔ |
| errhp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIBreak](#) in the documentation provided by Oracle Corp.

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Relational Commands

OCITablePrev (env; err; index; tbl; prev_index; exists) → status

| Parameter | Type | |
|------------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| index | Longint | ← |
| tbl | Longint | ← |
| prev_index | Longint | → |
| exists | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITablePrev](#) in the documentation provided by Oracle Corp.

OCITableNext (env; err; index; tbl; next_index; exists) → status

| Parameter | Type | |
|------------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| index | Longint | ← |
| tbl | Longint | ← |
| next_index | Longint | → |
| exists | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITableNext](#) in the documentation provided by Oracle Corp.

OCITableLast (env; err; tbl; indx) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| tbl | Longint | ← |
| indx | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITableLast](#) in the documentation provided by Oracle Corp.

OCITableFirst (env; err; tbl; index) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| tbl | Longint | ← |
| index | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITableFirst](#) in the documentation provided by Oracle Corp.

OCI TableExists (env; err; tbl; index; exists) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| tbl | Longint | ← |
| index | Longint | ← |
| exists | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCI TableExists](#) in the documentation provided by Oracle Corp.

OCITableDelete (env; err; index; tbl) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| index | Longint | ← |
| tbl | | ← |
| status | Longint | ← |

Description

Please refer to the command [OCITableDelete](#) in the documentation provided by Oracle Corp.

OCIRefToHex (env; err; ref; hex) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| ref | Longint | ← |
| hex | String | → |
| status | Longint | ← |

Description

Please refer to the command [OCIRefToHex](#) in the documentation provided by Oracle Corp.

OCIRefIsNull (env; ref) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| ref | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIRefIsNull](#) in the documentation provided by Oracle Corp.

OCIRefIsEqual (env; x; y) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| x | Longint | ← |
| y | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIRefIsEqual](#) in the documentation provided by Oracle Corp.

OCIRefHexSize (env; ref) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| ref | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIRefHexSize](#) in the documentation provided by Oracle Corp.

OCIRefFromHex (env; err; svc; hex; ref) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| svc | Longint | ← |
| hex | String | ← |
| ref | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIRefFromHex](#) in the documentation provided by Oracle Corp.

OCIRefClear (env; ref) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| ref | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIRefClear](#) in the documentation provided by Oracle Corp.

OCIRefAssign (env; err; source; target) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| source | Longint | ← |
| target | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIRefAssign](#) in the documentation provided by Oracle Corp.

OCIRawSize (env; raw) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| raw | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIRawSize](#) in the documentation provided by Oracle Corp.

OCIRawResize (env; err; new_size; raw) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| new_size | Longint | ← |
| raw | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIRawResize](#) in the documentation provided by Oracle Corp.

OCIRawPtr (env; raw) → ptr

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| raw | Longint | ← |
| ptr | BLOB | ← |

Description

Please refer to the command [OCIRawPtr](#) in the documentation provided by Oracle Corp.

OCIRawAssignRaw (env; err; rhs; lhs) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| rhs | Longint | ← |
| lhs | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIRawAssignRaw](#) in the documentation provided by Oracle Corp.

OCIRawAssignBytes (env; err; rhs; lhs) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| rhs | Blob | ← |
| lhs | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIRawAssignBytes](#) in the documentation provided by Oracle Corp.

OCIRawAllocSize (env; err; raw; allocsize) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| raw | Longint | ← |
| allocsize | | → |
| status | Longint | ← |

Description

Please refer to the command [OCIRawAllocSize](#) in the documentation provided by Oracle Corp.

OCIIterPrev (env; err; itr; elem; elemind; boc) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| itr | Longint | ↔ |
| elem | Longint | → |
| elemind | Longint | → |
| boc | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIIterPrev](#) in the documentation provided by Oracle Corp.

OCIIterNext (env; err; itr; elem; elemind; eoc) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| itr | Longint | ↔ |
| elem | Longint | → |
| elemind | Longint | → |
| eoc | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIIterNext](#) in the documentation provided by Oracle Corp.

OCIIterInit (env; err; coll; itr) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| coll | Longint | ← |
| itr | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIIterInit](#) in the documentation provided by Oracle Corp.

OCIIterGetCurrent (env; err; itr; elem) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| itr | Longint | ← |
| elem | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIIterGetCurrent](#) in the documentation provided by Oracle Corp.

OCIIterDelete (env; err; itr) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| itr | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIIterDelete](#) in the documentation provided by Oracle Corp.

OCIIterCreate (env; err; col; itr) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| col | Longint | ← |
| itr | | → |
| status | Longint | ← |

Description

Please refer to the command [OCIIterCreate](#) in the documentation provided by Oracle Corp.

OCIDateZoneToZone (err; date1; time1; zon1; zon2; date2; time2) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| date1 | Date | ← |
| time1 | Time | ← |
| zon1 | String | ← |
| zon2 | String | ← |
| date2 | Date | → |
| time2 | Time | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDateZoneToZone](#) in the documentation provided by Oracle Corp.

OCIDateToText (err; date; time; fmt; lang_name; buf) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| date | Date | ← |
| time | Time | ← |
| fmt | String | ← |
| lang_name | String | ← |
| buf | Date | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDateToText](#) in the documentation provided by Oracle Corp.

OCIDateSysDate (err; sys_date; sys_time) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| sys_date | Date | → |
| sys_time | Time | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDateSysDate](#) in the documentation provided by Oracle Corp.

OCIDateNextDay (err; date; day; next_day) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| date | Date | ← |
| day | String | ← |
| next_day | Date | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDateNextDay](#) in the documentation provided by Oracle Corp.

OCIDateLastDay (err; date; last_day) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| date | Date | ← |
| last_day | String | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDateLastDay](#) in the documentation provided by Oracle Corp.

OCIDateFromText (err; date_str; fmt; lang_name; date; time) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| date_str | String | ← |
| fmt | String | ← |
| lang_name | String | ← |
| date | Date | → |
| time | Time | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDateFromText](#) in the documentation provided by Oracle Corp.

OCIDateAddMonths (err; date; num_days; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| date | Date | ← |
| num_days | Longint | ← |
| result | Date | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIDateAddMonths](#) in the documentation provided by Oracle Corp.

OCIDateAddDays (err; date; num_days; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| date | Date | ← |
| num_days | Longint | ← |
| result | Date | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIDateAddDays](#) in the documentation provided by Oracle Corp.

OCICollTrim (env; err; trim_num; coll) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| trim_num | Longint | ← |
| coll | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCICollTrim](#) in the documentation provided by Oracle Corp.

OCICollSize (env; err; coll; size) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| coll | Longint | ← |
| size | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCICollSize](#) in the documentation provided by Oracle Corp.

OCICollMax (env; coll) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| coll | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCICollMax](#) in the documentation provided by Oracle Corp.

OCICollGetElem (env; err; coll; index; exists; elem; elemind) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| coll | Longint | ← |
| index | Longint | ← |
| exists | Longint | → |
| elem | Longint | → |
| elemind | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCICollGetElem](#) in the documentation provided by Oracle Corp.

OCICollAssignElem (env; err; index; elem; elemind; coll) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| index | Longint | ← |
| elem | Longint | ← |
| elemind | Longint | ← |
| coll | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCICollAssignElem](#) in the documentation provided by Oracle Corp.

OCICollAssign (env; err; rhs; lhs) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| rhs | Longint | ← |
| lhs | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCICollAssign](#) in the documentation provided by Oracle Corp.

OCICollAppend (env; err; elem; elemind; coll) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| elem | Longint | ← |
| elemind | Longint | ← |
| coll | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCICollAppend](#) in the documentation provided by Oracle Corp.

OCI TableSize (env; err; tbl; size) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| tbl | Longint | ← |
| size | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCI TableSize](#) in the documentation provided by Oracle Corp.

5

Types

OCICacheUnpin

Types

version 6.7.1

OCICacheUnpin (env; err; svc) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| svc | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCICacheUnpin](#) in the documentation provided by Oracle Corp.

OCICacheUnmark (env; err; svc) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| svc | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCICacheUnmark](#) in the documentation provided by Oracle Corp.

OCICacheRefresh

Types

version 6.7.1

OCICacheRefresh (env; err; svc; option) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| svc | Longint | ← |
| option | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCICacheRefresh](#) in the documentation provided by Oracle Corp.

OCICacheFree (env; err; svc) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| svc | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCICacheFree](#) in the documentation provided by Oracle Corp.

OCICacheFlush (env; err; svc; ref) → status

| Parameter | Type | |
|-----------|---------|---|
| env | Longint | ↔ |
| err | Longint | ↔ |
| svc | Longint | ← |
| ref | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCICacheFlush](#) in the documentation provided by Oracle Corp.

6

Datatypes

OCIStmtPrepare (stmt; errhp; stmt; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| stmt | Longint | ← |
| errhp | Longint | ← |
| stmt | Text | ← |
| mode | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIStmtPrepare](#) in the documentation provided by Oracle Corp.

OCIStmtGetBindInfo (stmt; errhp; stmt; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| stmt | Longint | ← |
| errhp | Longint | ← |
| stmt | Text | ← |
| mode | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIStmtGetBindInfo](#) in the documentation provided by Oracle Corp.

OCIStmtFetch (stmt; errhp; nrow) → status

| Parameter | Type | |
|-----------|---------|---|
| stmt | Longint | ← |
| errhp | Longint | ← |
| nrow | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIStmtFetch](#) in the documentation provided by Oracle Corp.

OCIStmtExecute (svchp; stmtp; errhp; iters; rowoff; snap_in; snap_out; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | ↔ |
| stmtp | Longint | ↔ |
| errhp | Longint | ↔ |
| iters | Longint | ← |
| rowoff | Longint | ← |
| snap_in | Longint | ← |
| snap_out | Longint | → |
| mode | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIStmtExecute](#) in the documentation provided by Oracle Corp.

OCI ServerVersion

Datatypes

version 6.7.1

OCI ServerVersion (hndlp; errhp; bufp) → status

| Parameter | Type | |
|-----------|---------|---|
| hndlp | Longint | ← |
| errhp | Longint | ← |
| bufp | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCI ServerVersion](#) in the documentation provided by Oracle Corp.

OCIHandleFree (hndlp) → status

| Parameter | Type | |
|-----------|---------|---|
| hndlp | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIHandleFree](#) in the documentation provided by Oracle Corp.

OCIHandleAlloc (parenth; hndlpp; type) → status

| Parameter | Type | |
|-----------|---------|---|
| parenth | Longint | ← |
| hndlpp | Longint | → |
| type | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIHandleAlloc](#) in the documentation provided by Oracle Corp.

OCIErrorGet (hndlp; recordno; errcodep; bufp) → status

| Parameter | Type | |
|-----------|---------|---|
| hndlp | Longint | ← |
| recordno | Longint | ← |
| errcodep | Longint | → |
| bufp | String | → |
| status | Longint | ← |

Description

Please refer to the command [OCIErrorGet](#) in the documentation provided by Oracle Corp.

OCIEnvCreate (envhpp; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| envhpp | Longint | → |
| mode | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIEnvCreate](#) in the documentation provided by Oracle Corp.

OCITerminate () → status

| Parameter | Type | |
|-----------|---------|---|
| status | Longint | ← |

Description

Please refer to the command [OCITerminate](#) in the documentation provided by Oracle Corp.

OCIDescribeAny (svchp; errhp; objptr; objptr_typ; info_level; objtyp; dschp) → status

| Parameter | Type | |
|------------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| objptr | Longint | → |
| objptr_typ | Longint | → |
| info_level | Longint | → |
| objtyp | Longint | → |
| dschp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIDescribeAny](#) in the documentation provided by Oracle Corp.

OCIDescribeAnyText (svchp; errhp; objname; objptr_typ; info_level; objtyp; dschp) → status

| Parameter | Type | |
|------------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| objname | String | ↔ |
| objptr_typ | Longint | → |
| info_level | Longint | → |
| objtyp | Longint | → |
| dschp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIDescribeAny](#) in the documentation provided by Oracle Corp.

OCIDescriptorFree

Datatypes

version 6.7.1

OCIDescriptorFree (descp) → status

| Parameter | Type | |
|-----------|---------|---|
| descp | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDescriptorFree](#) in the documentation provided by Oracle Corp.

OCIDescriptorAlloc (parenth; descpp; type) → status

| Parameter | Type | |
|-----------|---------|---|
| parenth | Longint | → |
| descpp | Longint | ← |
| type | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDescriptorAlloc](#) in the documentation provided by Oracle Corp.

OCIDefineByPos (stmtp; defnpp; errhp; position; valuep; dty; indp; rlenp; rcodep; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| stmtp | Longint | ↔ |
| defnpp | Longint | ↔ |
| errhp | Longint | ↔ |
| position | Longint | → |
| valuep | Pointer | ↔ |
| dty | Longint | → |
| indp | Pointer | → |
| rlenp | Pointer | ↔ |
| rcodep | Pointer | ← |
| mode | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDefineByPos](#) in the documentation provided by Oracle Corp.

OCIBindByPos (stmt; bindpp; errhp; position; valuep; dty; indp; rlenp; rcodep; maxarr_len; mode) → status

| Parameter | Type | |
|------------|---------|---|
| stmt | Longint | ↔ |
| bindpp | Longint | ↔ |
| errhp | Longint | ↔ |
| position | Longint | → |
| valuep | Pointer | ↔ |
| dty | Longint | → |
| indp | Pointer | ↔ |
| rlenp | Pointer | ↔ |
| rcodep | Pointer | ← |
| maxarr_len | Longint | → |
| mode | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIBindByPos](#) in the documentation provided by Oracle Corp.

OCIBindByName (stmp; bindpp; errhp; placeholder; valuep; dty; indp; alenp; rcodep; maxarr_len; mode) → status

| Parameter | Type | | Description |
|-------------|---------|---|-------------|
| stmp | Longint | ↔ | |
| bindpp | Longint | ↔ | |
| errhp | Longint | ↔ | |
| placeholder | String | ← | |
| valuep | Pointer | ↔ | |
| dty | Longint | ← | |
| indp | Pointer | ↔ | |
| alenp | Pointer | ↔ | |
| rcodep | Pointer | → | |
| maxarr_len | Longint | ← | |
| mode | Longint | ← | |
| status | Longint | ← | |

Description

Please refer to the command [OCIBindByName](#) in the documentation provided by Oracle Corp.

OCIAttrSetVal (trgthndlp; attributep; attrtype; errhp) → status

| Parameter | Type | |
|------------|---------|---|
| trgthndlp | Longint | ↔ |
| attributep | Longint | → |
| attrtype | Longint | → |
| errhp | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIAttrSet](#) in the documentation provided by Oracle Corp.

OCIAttrSetText (trgthndlp; attributep; attrtype; errhp) → status

| Parameter | Type | |
|------------|---------|---|
| trgthndlp | Longint | ↔ |
| attributep | String | → |
| attrtype | Longint | → |
| errhp | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIAttrSet](#) in the documentation provided by Oracle Corp.

OCIAttrGetVal (trgthndlp; attributep; attrtype; errhp) → status

| Parameter | Type | |
|------------|---------|---|
| trgthndlp | Longint | → |
| attributep | Longint | ← |
| attrtype | Longint | → |
| errhp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIAttrGet](#) in the documentation provided by Oracle Corp.

OCIAttrGetText (trgthndlp; attributep; attrtype; errhp) → status

| Parameter | Type | |
|------------|---------|---|
| trgthndlp | Longint | → |
| attributep | String | ← |
| attrtype | Longint | → |
| errhp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIAttrGet](#) in the documentation provided by Oracle Corp.

7

Transactions

OCITransStart (svchp; errhp; timeout; flags) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | ↔ |
| errhp | Longint | ↔ |
| timeout | Longint | → |
| flags | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITransStart](#) in the documentation provided by Oracle Corp.

OCITransRollback (svchp; errhp; flags) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| flags | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITransRollback](#) in the documentation provided by Oracle Corp.

OCITransPrepare (svchp; errhp; flags) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| flags | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITransPrepare](#) in the documentation provided by Oracle Corp.

OCITransForget (svchp; errhp; flags) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| flags | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITransForget](#) in the documentation provided by Oracle Corp.

OCITransDetach (svchp; errhp; flags) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| flags | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITransDetach](#) in the documentation provided by Oracle Corp.

OCITransCommit (svchp; errhp; flags) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | → |
| flags | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCITransCommit](#) in the documentation provided by Oracle Corp.

8

Lobs

OCILobWriteAppend (envhp; errhp; locp; bufp) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| bufp | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobWriteAppend](#) in the documentation provided by Oracle Corp.

OCILobIsTemporary (envhp; errhp; locp; is_tempoary) → status

| Parameter | Type | |
|-------------|---------|---|
| envhp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | → |
| is_tempoary | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobIsTemporary](#) in the documentation provided by Oracle Corp.

OCILOBGetChunkSize (svchp; errhp; locp; chunk_size) → status

| Parameter | Type | |
|------------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| chunk_size | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILOBGetChunkSize](#) in the documentation provided by Oracle Corp.

OCIlobFreeTemporary (svchp; errhp; locp) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCIlobFreeTemporary](#) in the documentation provided by Oracle Corp.

OCILOBCreateTemporary (svchp; errhp; locp; csid; csfrm; lobtype; cache; duration) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| csid | Longint | → |
| csfrm | Longint | → |
| lobtype | Longint | → |
| cache | Longint | → |
| duration | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCILOBCreateTemporary](#) in the documentation provided by Oracle Corp.

OCILOBCHARSETID (envhp; errhp; locp; csfrm) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | ↔ |
| errhp | Longint | ↔ |
| locp | Longint | → |
| csfrm | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILOBCHARSETID](#) in the documentation provided by Oracle Corp.

OCIDurationEnd (envhp; errhp; duration; svc) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | ↔ |
| errhp | Longint | ↔ |
| duration | Longint | → |
| svc | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCIDurationEnd](#) in the documentation provided by Oracle Corp.

OCIDurationBegin

Lobs

version 6.7.1

OCIDurationBegin (envhp; errhp; svc; parent; duration) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | ↔ |
| errhp | Longint | ↔ |
| svc | Longint | → |
| parent | Longint | → |
| duration | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCIDurationBegin](#) in the documentation provided by Oracle Corp.

OCILobWrite (svchp; errhp; locp; offset; bufp) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | ↔ |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| offset | Longint | → |
| bufp | BLOB | → |
| status | Longint | ← |

Description

Please refer to the command [OCILobWrite](#) in the documentation provided by Oracle Corp.

OCILobTrim (svchp; errhp; locp; newlen) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | ← |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| newlen | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobTrim](#) in the documentation provided by Oracle Corp.

OCILobRead (svchp; errhp; locp; offset; bufp) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | ↔ |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| offset | Longint | → |
| bufp | BLOB | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobRead](#) in the documentation provided by Oracle Corp.

OCILOBLocatorIsInit (envhp; errhp; locp; is_initialized) → status

| Parameter | Type | |
|----------------|---------|---|
| envhp | Longint | ↔ |
| errhp | Longint | ↔ |
| locp | Longint | → |
| is_initialized | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILOBLocatorIsInit](#) in the documentation provided by Oracle Corp.

OCILobLoadFromFile (svchp; errhp; dst_locp; src_locp; amount; dst_offset; src_offset) → status

| Parameter | Type | |
|------------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| dst_locp | Longint | ↔ |
| src_locp | Longint | ↔ |
| amount | Longint | → |
| dst_offset | Longint | → |
| src_offset | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCILobLoadFromFile](#) in the documentation provided by Oracle Corp.

OCILobIsEqual (envhp; x; y; is_equal) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | → |
| x | Longint | → |
| y | Longint | → |
| is_equal | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobIsEqual](#) in the documentation provided by Oracle Corp.

OCILobGetLength (svchp; errhp; locp; lenp) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | → |
| lenp | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobGetLength](#) in the documentation provided by Oracle Corp.

OCILobFlushBuffer (svchp; errhp; locp; flag) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | ↔ |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| flag | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCILobFlushBuffer](#) in the documentation provided by Oracle Corp.

OCILobFileExists (svchp; errhp; filep; flag) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| filep | Longint | → |
| flag | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobFileExists](#) in the documentation provided by Oracle Corp.

OCILobFileClose (svchp; errhp; filep) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| filep | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCILobFileClose](#) in the documentation provided by Oracle Corp.

OCILOBFileCloseAll (svchp; errhp) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCILOBFileCloseAll](#) in the documentation provided by Oracle Corp.

OCILobErase (svchp; errhp; locp; amount; offset) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| amount | Longint | ↔ |
| offset | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCILobErase](#) in the documentation provided by Oracle Corp.

OCILOBEnabledBuffering

Lobs

version 6.7.1

OCILOBEnabledBuffering (svchp; errhp; locp) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCILOBEnabledBuffering](#) in the documentation provided by Oracle Corp.

OCILOBDisableBuffering (svchp; errhp; locp) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| locp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCILOBDisableBuffering](#) in the documentation provided by Oracle Corp.

OCILobCopy (svchp; errhp; dst_locp; src_locp; amount; dst_offset; src_offset) → status

| Parameter | Type | |
|------------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| dst_locp | Longint | ↔ |
| src_locp | Longint | → |
| amount | Longint | → |
| dst_offset | Longint | → |
| src_offset | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCILobCopy](#) in the documentation provided by Oracle Corp.

OCILOBCHARSETFORM (envhp; errhp; locp; csfrm) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | ↔ |
| errhp | Longint | ↔ |
| locp | Longint | → |
| csfrm | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILOBCHARSETFORM](#) in the documentation provided by Oracle Corp.

OCILobAssign (envhp; errhp; src_locp; dst_locp) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | ↔ |
| errhp | Longint | ↔ |
| src_locp | Longint | → |
| dst_locp | Longint | ↔ |
| status | Longint | ← |

Description

Please refer to the command [OCILobAssign](#) in the documentation provided by Oracle Corp.

OCILobAppend (envhp; errhp; dst_locp; src_locp) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | → |
| errhp | Longint | ↔ |
| dst_locp | Longint | ↔ |
| src_locp | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCILobAppend](#) in the documentation provided by Oracle Corp.

OCILOBFileSetName (envhp; errhp; filepp; dir_alias; filename) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | ↔ |
| errhp | Longint | ↔ |
| filepp | Longint | ↔ |
| dir_alias | String | → |
| filename | String | → |
| status | Longint | ← |

Description

Please refer to the command [OCILOBFileSetName](#) in the documentation provided by Oracle Corp.

OCILobFileOpen (svchp; errhp; filep; mode) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | ↔ |
| errhp | Longint | ↔ |
| filep | Longint | → |
| mode | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCILobFileOpen](#) in the documentation provided by Oracle Corp.

OCILobFileIsOpen (svchp; errhp; filep; flag) → status

| Parameter | Type | |
|-----------|---------|---|
| svchp | Longint | → |
| errhp | Longint | ↔ |
| filep | Longint | → |
| flag | Longint | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobFileIsOpen](#) in the documentation provided by Oracle Corp.

OCILobFileName (envhp; errhp; filepp; dir_alias; filename) → status

| Parameter | Type | |
|-----------|---------|---|
| envhp | Longint | ↔ |
| errhp | Longint | ↔ |
| filepp | Longint | → |
| dir_alias | String | ← |
| filename | String | ← |
| status | Longint | ← |

Description

Please refer to the command [OCILobFileName](#) in the documentation provided by Oracle Corp.

9

Math

OCINumberTrunc (err; number; decplace; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| decplace | Longint | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberTrunc](#) in the documentation provided by Oracle Corp.

OCINumberToText (err; number; fmt; nls_params; buf) → status

| Parameter | Type | |
|------------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| fmt | String | ← |
| nls_params | String | ← |
| buf | String | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberToText](#) in the documentation provided by Oracle Corp.

OCINumberTan (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Longint | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberTan](#) in the documentation provided by Oracle Corp.

OCINumberSub (err; number1; number2) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number1 | Real | ← |
| number2 | Real | ← |
| status | Longint | ← |

Description

Please refer to the command [OCINumberSub](#) in the documentation provided by Oracle Corp.

OCINumberSqrt (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberSqrt](#) in the documentation provided by Oracle Corp.

OCINumberSin (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberSin](#) in the documentation provided by Oracle Corp.

OCINumberRound (err; number; decplace; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| decplace | Longint | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberRound](#) in the documentation provided by Oracle Corp.

OCI`NumberPower` (err; base; exp; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| base | Real | ← |
| exp | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCI`NumberPower`](#) in the documentation provided by Oracle Corp.

OCINumberMul (err; number1; number2; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number1 | Real | ← |
| number2 | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberMul](#) in the documentation provided by Oracle Corp.

OCI`NumberLog` (err; base; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| base | Real | ← |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCI`NumberLog`](#) in the documentation provided by Oracle Corp.

OCINumberLn (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberLn](#) in the documentation provided by Oracle Corp.

OCINumberIntPower (err; base; exp; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| base | Real | ← |
| exp | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberIntPower](#) in the documentation provided by Oracle Corp.

OCINumberHypTan (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberHypTan](#) in the documentation provided by Oracle Corp.

OCINumberHypSin (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberHypSin](#) in the documentation provided by Oracle Corp.

OCI`NumberHypCos` (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCI`NumberHypCos`](#) in the documentation provided by Oracle Corp.

OCI`NumberFromText` (err; str; fmt; nls_params; number) → status

| Parameter | Type | |
|------------|---------|---|
| err | Longint | ↔ |
| str | String | ← |
| fmt | String | ← |
| nls_params | String | ← |
| number | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCI`NumberFromText`](#) in the documentation provided by Oracle Corp.

OCINumberExp (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberExp](#) in the documentation provided by Oracle Corp.

OCINumberDiv (err; number1; number2; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number1 | Real | ← |
| number2 | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberDiv](#) in the documentation provided by Oracle Corp.

OCINumberCos (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberCos](#) in the documentation provided by Oracle Corp.

OCINumberArcTan2 (err; number1; number2; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number1 | Real | ← |
| number2 | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberArcTan2](#) in the documentation provided by Oracle Corp.

OCINumberArcTan (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberArcTan](#) in the documentation provided by Oracle Corp.

OCINumberArcSin (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberArcSin](#) in the documentation provided by Oracle Corp.

OCINumberArcCos (err; number; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberArcCos](#) in the documentation provided by Oracle Corp.

OCINumberAdd (err; number1; number2; result) → status

| Parameter | Type | |
|-----------|---------|---|
| err | Longint | ↔ |
| number1 | Real | ← |
| number2 | Real | ← |
| result | Real | → |
| status | Longint | ← |

Description

Please refer to the command [OCINumberAdd](#) in the documentation provided by Oracle Corp.

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Extras

OCICleanUp → status

| Parameter | Type | Description |
|--|------|-------------|
| This command does not require any parameters | | |

| | | |
|--------|---------|---|
| status | Longint | ← |
|--------|---------|---|

Description

The primary task of the [OCICleanUp](#) command is to free up memory used by objects within the plug-in, particularly potentially large objects created during Binds and Defines.

OCIOnErrCall (methodName; \$1; \$2)

| Parameter | Type | |
|------------|---------|---|
| methodName | String | → |
| \$1 | Longint | → |
| \$2 | Longint | → |

Description

The command [OCIOnErrCall](#) installs an error handling method that will be executed every time an error occurs. This allows you to manage possible execution errors and override default error handling.

methodName is the name of the method to install.

To return to default behavior, pass an empty string such as [OCIOnErrCall](#) ("").

4D for OCI passes two arguments, \$1 and \$2, to your method. If you want to compile your database, you must declare the \$1 and \$2 variables using the C_LONGINT commands.

OCIGetOracleHomePath → String

| Parameter | Type | Description |
|-----------|-----------------|--|
| | | This command does not require any parameters |
| String | Function result | ← |

Description

The command [OCIGetOracleHomePath](#) returns the full path of the Oracle home folder. This function is especially useful if you need to access certain files from the Oracle home folder.

Example

Get the list of entry points contained in the "tnsnames.ora" file.

```
$TnsPath:=OCIGetTnsnamesPath  
oci_tool_GetEntryName  
($TnsPath+"Network"\Admin\tnsnames");-  
>oci_tTnsNameEntry
```

oci_tool_GetEntryName is a 4D method that allows analyzing the "tnsnames.ora" file to extract entry points and save them in a text array.

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