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************************** README.TXT *******************************
*
* Product:         Natural
* Platform:        UNIX
* Version:         8.4.1 PL 0
* Date of creation: 2017-10-11
*
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1.   Installation

n/a

2.   Changes and Enhancements

2.1   Locating and Loading of Broker Shared Library Simplified

As of Natural 8.3.3, the shared library natetb is no longer available,
which was used to dynamically load the broker library. Now, the broker
is always searched at
<Installdir>\common\EntireX\lib\broker.so

3.   Restrictions

3.1   Intended Incompatibility to Natural on Mainframe Computers

The underlying architecture of the different operating systems that

are supported by Natural made it necessary to implement some features in a platform-specific way. This means that they will work differently on mainframe and Open Systems platforms. These features are described in the following.

3.1.1 DEFINE WINDOW Statement

The size of the windows and the visible fields within a window differ slightly because of the attribute bytes of the mainframe computers (see the SIZE clause of the DEFINE WINDOW statement). The POSITION clause of the DEFINE WINDOW statement is not evaluated. Overlay lines which are positioned on the screen (%WP or CONTROL clause of the DEFINE WINDOW statement) are displayed behind all open windows because they belong to the main screen. Note: If multiple windows are visible, you can move a background window to the front by positioning the cursor in it.

The terminal commands %WX and %WY are not implemented; they are only available on mainframe computers.

3.2   Read-only Buffer Pool

The read-only buffer pool must be large enough to hold all objects described in the preload list.

If the size of a FILEDIR exceeds the available storage in the buffer pool,
the following message occurs:

    Buffer pool manager returned with error code -1.
    Error 21: User error in loader function occurred.
    The server process was aborted.

If more than 16 FILEDIRs are loaded into a read-only buffer pool, the following message may occur:

    Error processing record ... .
    Buffer pool manager returned with error code 6010.
    Buffer pool is not operational.
    The server process was aborted.

In both cases, Natural will not start. Instead, Natural will report startup
error 16 with subcode (31).

Source code will not be loaded into the buffer pool.

The preload process will reject preload records describing a source code object. The load process, however, continues.

If Natural uses a secondary buffer pool (see dynamic parameter BPID2), the sizes of the primary read only buffer pool and secondary read/write buffer pool should be the same.

3.3   Database Type ADA2

A database ID that has been defined as database type ADA2 in the global
configuration file must not be referenced as physical database ID in an
LFILE definition.
The physical database ID in an LFILE assignment has to refer to a
database of type ADA.

4.   Known Issues

4.1   Natural Development Server (NDV) installation

The Natural Development Server (NDV) has an optional dependency to
Adabas Client on Unix platforms. In case of a Natural Development
Server installation without Adabas or Adabas Client this dependency
is checked. A corresponding APP_ERR message in the installation log
can be ignored.

5.   Solved Problems

For the list of solved problems, see the file README.FIX.