

# Refresh of Natural Load Pool

The following topics are covered:

- Restrictions/Prerequisites
- Procedure
- Keyword Parameters for the Program PREFRESH

**BS2000/OSD Environment** - Other Topics:

Natural Shared Nucleus under BS2000/OSD | Optimization of Message Handling | Siemens Terminal Types Supported | Function Key Support with 9750 Devices | Common Memory Pools | Calling Dynamically Reloadable 3GL Programs

## Restrictions/Prerequisites

- A Natural load pool which is also used by batch applications must **not** be refreshed while the Natural batch applications are in operation. A refresh is admissible only with TIAM and UTM applications.
- A new Natural nucleus can be loaded only into a **global** common memory pool.
- The Natural load pool must have been started with the keyword parameter ACCS=WRITE using the program CMPSTART.

## Procedure

- When a new Natural nucleus is to be loaded into the common memory pool, the name of the linked (reentrant) nucleus must be identical with the existing name. The name of the Natural nucleus is equal to the name of the global common memory pool.

**Example:**

The existing Natural nucleus was started with the following parameters using the program CMPSTART:

```
/EXEC (CMPSTART,NATURAL.MOD)
  NAME=NATSHARE, POSI=ABOVE, ADDR=250, PFX=YES, SIZE=2MB, ALNK=NO
  ACCS=WRITE, LIBR=NATURAL.USER.MOD.A
```

- The newly linked Natural nucleus is to be loaded from the library NATURAL.USER.MOD.B into the global common memory pool.

This is accomplished with the program PREFRESH.

**Example:**

```
/.PREFRESH LOGON
  /OPTION DUMP=YES
  /SYFILE SYSOUT=LST.PREFRESH.NATSHARE
  /SYFILE SYSDTA=(SYSCMD)
  /EXEC (PREFRESH,NATURAL.MOD)
  NAME=NATSHARE, LIBR=NATURAL.USER.MOD.B
  /LOGOFF N
```

or:

```

/load (prefresh,natural.mod) <enter>
% BLS0517 MODULE 'PREFRESH' LOADED
/r <enter>
*name=natshare,libr=natural.user.mod.b <enter>
* <enter>
REFR050: LOAD POOL NATSHARE IS SUCCESSFULLY REFRESHED
/
    
```

- The successful loading of the new Natural nucleus is confirmed by the message:

```
REFR050: LOAD POOL name IS SUCCESSFULLY REFRESHED
```

## Keyword Parameters for the Program PREFRESH

The program PREFRESH has the following keyword parameters:

NAME | LIBR | LOAD | ALNK | TIM1 | TIM2

The program PREFRESH has the following syntax (If available, default values are shown.):

```
REFRESH NAME=name,LIBR=library,ALNK=NO,TIM1=10,TIM2=20
```

### NAME - Common Memory Pool and Module Name

This parameter determines the name of the module and the name of the common memory pool. The name must be specified. No default value exists.

NAME= <i>xxxxxxxx</i>	<i>xxxxxxxx</i> : valid module and common memory pool name. The name must be identical with the existing module/common memory pool name. The maximum number of characters is 8.
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### LIBR - Load Library

This parameter determines from where the defined module is to be loaded. The name must be specified. No default value exists.

LIBR= <i>library</i>	<i>library</i> is the name of the load library.
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### LOAD - Module Load Method

This parameter determines which macro shall be used for loading a module into a common memory pool.

LOAD=ASHARE	The macro ASHARE will be used.
LOAD=BIND	By default, the macro BIND will be used.

#### Attention:

When LOAD=ASHARE is defined, for the start of the common memory load pool (with program CMPSTART) LOAD=ASHARE also must be defined.

## ALNK - Activate AUTOLNK Function

This parameter determines whether the AUTOLNK function of the dynamic binder loader (DBL) is activated.

<b>ALNK=YES</b>	The AUTOLNK function is activated.
<b>ALNK=NO</b>	By default, the AUTOLNK function is deactivated.

## TIM1 - Wait Time in Seconds before the Load Pool Refresh is Started

This parameter determines the waiting time in seconds before the new Natural nucleus is loaded. It serves to synchronize Natural sessions which are currently active in the nucleus.

<b>TIM1=xx</b>	xx must be in the range from 1 up to 99.
<b>TIM1=10</b>	The default value is 10 seconds.

## TIM2 - Wait Time in Seconds after the New Natural Nucleus was Loaded

This parameter determines the waiting time in seconds after the loading of the new Natural nucleus is complete until the serialization identification for the corresponding application has been enabled. It serves to synchronize the relativizing of all address constants in the newly loaded nucleus.

<b>TIM2=xx</b>	xx must be in the range from 1 up to 99.
<b>TIM1=20</b>	The default value is 20 seconds.