Product Information

Product name	Product number
NUCLEUS Library	*250295C*

Norsk Data

Description of product

Program library (PLANC interface) for access to NUCLEUS from programs
in the ND-100/500/5000 and DOMINO I/O Controller part of an ND-5000 or
ND-500-II (with ND-100 MPM/OCTOBUS Line Driver card) system. This
library uses specific primitives towards the NUCLEUS kernel for each
type of CPU, and it MUST be used when accessing NUCLEUS. The library
is optimized and it offers a very high performance NUCLEUS interface.

Intended for ND internal use only.

This version C is the first version to be released of this product
(some internal versions are already in use).

Reason(s) for new product or version

This library makes it easy for ND system programmers to use the
NUCLEUS system from ND-100/500/5000/DOMINO CPUs. It offers an
identical PLANC routine interface from all of these CPUs.

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1 Prerequisites

The following things are <u>required</u> in order to use this product.

1.1 Hardware prerequisites

The following hardware must be present for this product to be used:

<u>CPU type (any of the following):</u>
- 530/550/570 with *) ND-100 OCTOBUS/MPM Line Driver card
- 5000

Floating format: *Any*

<u>Other hardware:</u>

Product name	Product number	
*) ND-100 OCTOBUS/MPM Line Driver	*324133*	*ECO ≥ D.*
or	*324118*	*ECO ≥ G.*

For 5000: <u>One</u> contiguous MF-<u>data</u>-bus
(all CPUs <u>must</u> access one common
MultiPort Memory), however, several
MF-controllers may be used.

1.2 Software prerequisites

The following software must be installed on the system for thi
product to be used:

<u>Operating system:</u>

<u>Name</u>	<u>Version/Revision</u>
SINTRAN III	*≥ L*

<u>Other software:</u>

<u>Product name</u>	<u>Product number</u>
PLANC for ND-500/5000 and/or	*210310 ≥ I*
PLANC for ND-100 (500 Cross-C)and/or	*211037 ≥ I*
PLANC for Motorola	*211038 ≥ I*

1.3 Other prerequisites

The following are necessary for this product to be used.

<u>Minimum Permanent Mass Storage:</u>

User	Space (pages)	Number of files

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Any user	≥10	≥1

	Minimum	Maximum
Number of segments (ND-100)	0	
Number of RT descriptions	0	

Space required on segment files: 0   pages

2 Dependencies

In addition to the above listed hardware and/or software prerequisites, the following dependencies exist between this and other products. The hardware and software listed here may, for example, be necessary to use the product's full functionality.

2.1 Hardware dependencies

There are dependency relationships between this product and the following hardware:

	Product name	Product number
	DOMINO PROM	73100 ≥ C vers.
	Ethernet-III Controller	324232 ECO ≥ D
or	MFB SCSI Controller	324247 ECO ≥ A
or	Graphic Controller	324239 ECO ≥ B
or	Array Processor Interface Controller	324272

2.2 Software dependencies

There are dependency relationships between this product and the following software:

Product name	Product number
DOMINO Programmer's Kit	250297 ≥ C vers.

Nature of dependency

Must be available in order to use this library in a DOMINO controller.

2.3 Other dependencies

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In addition to the hardware and software dependency relationships
listed above, you should be aware of the following dependencies:

None

3 Documentation

Included (distributed free with product)

Title	Number
DOMINO and NUCLEUS Software Guide	*820026.1 EN*

Optional (must be purchased)
None

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4 Installation procedure

4.1 Automatic installation

None

4.2 Non-automatic installation

The one diskette contains these NUCLEUS library files:

NK-100-1bank-C:BRF	Library for 1-bank program in ND-100.
NK-100-2bank-C:BRF	Library for 2-bank program in ND-100.
NK-5000-C:NRF	Library for ND-500/5000.
NK-DOM-APPL-C:NRF	Library for DOMINO Controller.
NK-DOM-OS-C:NRF	Must be loaded in DOMINO, see below.
NK-DOM-LINK-C:MODE	Example of a DOMINO config/link job.
NK-ERRCODE-C:DEFS	Error and function codes "Constant" defs.
NK-LIBRARY-C:IMPT	IMPORT declarations of the Library routines

All files/libraries must be used from PLANC only.

Copy the files you want to use according to the descriptions above
from the diskette to any user area you want.
After loading any NUCLEUS library then you must load a PLANC
library, preferably PLANC ≥ I version.

NOTE: When loading the NUCLEUS library inside a DOMINO Controller
you must load both the NK-DOM-APPL and NK-DOM-OS files. The
NK-DOM-LINK file contains an example of how you load, i.e. how to
make a config/link job for your "application" using NUCLUES in
DOMINO.

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5 Modifications

No modifications - This is the first version of this product.

6 Errors corrected

This is the first version of this product.

7 Errors known but not corrected

None