

Common User Routine Parameter Area

This subsection covers the following topics:

- Common Parameter Area NOPXPL-A
- Where User Routines Can Be Used
- Parameters Used for Different Call Places
- Predefined Symbols
- Common Considerations for User Routines
- Decimal Character (DC) Setting
- Restrictions

Common Parameter Area NOPXPL-A

All user routines under Entire Operations must use the common parameter area NOPXPL-A, which is available in both object and source format in the SYSEOR library.

For this reason, the initial coding of a user routine must always resemble:

```
DEFINE DATA PARAMETER USING NOPXPL-A
```

Where User Routines Can Be Used

The field P-CALL-PLACE in the parameter list shows from where the user routine was called:

Value	Description
EJA	End-of-Job Action
EJC	End-of-Job Checking
FSB	Sysout File Name Generation (BS2000/OSD)
ICO	Input Condition Value Determination
MAC	Parameter List for Dynamic JCL Generation
NAT	Natural Program Standalone under Entire Operations (NAT-type Job)
RMD	Resource Master Determination Exit
SFX	Symbol Function Exit
SNF	Global ‡Symbol not FoundŸ Exit
SYC	Symbol Plausibility Check
SYF	Symbol Functions

Parameters Used for Different Call Places

Field Name	Format	Call Place										
		EJA	EJC	FSB	ICO	MAC	NAT	RMD	SFX	SNF	SYC	SYF
P-CALL-PLACE	A03											
P-RC (Return code)	N04	out	out	out	out	n/a	out	out	out	out	out	out
P-RT (Return text)	A66	out	out	out	out	n/a	out	out	out	out	out	out
P-OWNER	A10	in	in	in	in	in	in	in	in	in	in	in
P-NETWORK	A10	in	in	in	in	in	in	in	in	in	(3)	in
P-JOB	A10	in	in	in	in	in	in	in	in	in	n/a	in
P-RUN	P13	in	in	in	in	in	in	in	in	in	(3)	in
P-ACTIVATION-TIME	T	in	in	in	in	in	in	in (7)	n/a	n/a	(3)	n/a
P-EXECUTION-NODE	N03	in	in	in	in	in	in	in	in	in	n/a	in
P-EXECUTION-OPSYS	A08	in	in	in	in	in	in	in	n/a	n/a	n/a	n/a
P-SYMBOL-TABLE	A10	in	in	in	in	in	in	in	in	in	n/a	in
P-CONDITION	A20	(6)	(6)	n/a	in	(2)	n/a	n/a	(4)	n/a	(4)	(4)
P-RESOURCE	A20	in	n/a	n/a	n/a	n/a	n/a	in	n/a	n/a	n/a	n/a
P-SYMBOL	A20	(1)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	mod	n/a	n/a
P-JOB-ID-10	A10	out	out	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P-JOB-NUMBER (9)	N05	out	out	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P-SYSOUT-FILE	A54	(1)	(1)	out	n/a	n/a	n/a	n/a	(5)	n/a	(5)	(5)
P-FSB-OBJECT-TYPE	A05	n/a	n/a	in	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P-FSB-USERID	A08	n/a	n/a	in	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P-FSB-CATID	A04	n/a	n/a	in	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P-FSB-SUFFIX	A02	n/a	n/a	in	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P-SYMBOL-VALUE	A54	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	out	n/a	n/a
R-RMD-OLD-QTY-INITIAL	N7.2	n/a	n/a	n/a	n/a	n/a	n/a	in	n/a	n/a	n/a	n/a
P-RMD-NEW-QTY-INITIAL	N7.2	n/a	n/a	n/a	n/a	n/a	n/a	out	n/a	n/a	n/a	n/a
P-RMD-PARAMETER	A36	n/a	n/a	n/a	n/a	n/a	n/a	in	n/a	n/a	n/a	n/a

Remarks

1. in; BS2000/OSD only
2. in; contains P-SUFFIX in first 10 bytes
3. in; only for active symbols
4. in; here: P-SYMBOL (A20)
5. in; here: P-SYMBOL-VALUE (A54)
6. in; contains P-JOB-ID (A5) in first 5 bytes
7. in; here: timestamp of previous exit call
8. in; this field should no longer be used. The format is obsolete. It cannot be used for all operating systems.
9. This field should no longer be used. Use P-JOB-ID-10 instead. The size of P-JOB-NUMBER is too small for some operating systems. For compatibility reasons, the field will be filled on return, if the job number is in the

range of 1 to 99999.

Predefined Symbols

See the subsection Predefined Symbols in the section Symbols for a list of predefined symbols.

Common Considerations for User Routines

All user routines must return the field P-RC (return code). 0 (zero) means OK.

The field P-RT (return text) can be used optionally to pass back some specific information. Entire Operations writes this text into the log and displays it on the Active Jobs screen, if supplied.

All other parameters pass environment information to the user routine. Some parameters are not always used. See the above table for details.

Decimal Character (DC) Setting

The parameter area NOPXPL-A contains numbers with decimal characters. The factory setting for decimal character in the delivered source of NOPXPL-A is $\dot{\ddot{Y}}$. If you want to catalog your user routines and Natural programs with another decimal character (e.g. comma, DC=,), you must also modify NOPXPL-A:

- Make sure that the decimal character of your Natural session is set correctly. You can verify this with the direct command GLOBALS.
- Use the Natural Editor to edit NOPXPL-A.
- Change the decimal character to your current DC parameter setting in the numeric fields, which contain a decimal character. Stow NOPXPL-A.

You will now be able to use NOPXPL-A with your own decimal character.

Restrictions

1. ON ERROR routines **must not** be coded in any Entire Operations user routine. Error handling is performed by a global Monitor error routine. Monitor failures are possible if this is not adhered to.
2. No programs with their own GDA may be invoked.
3. The names of user routines may not begin with the letter **V**, particularly if they are to be stored in the library SYSEOR, because the prefix **V** is reserved for the internal Entire Operations exit directory.
4. The following Natural statements **may not be coded** in any user routine invoked by Entire Operations:
 - STOP
 - TERMINATE
 - FETCH without RETURN (FETCH RETURN is allowed)

Note:

If you want to use the values of the special parameters in macro-JCL, you must first read them with the special statement #GET-SYMBOL.