CATALL

| CATALL | object-name [**TO** object-name]

text-name | [**RECAT**
ALL] | [**TYPES** types] | [**SAVE**
CATALOG
STOW
CHECK] | [options ...] |

This command is used to store all objects in the current library in source and/or object form.

When you enter the CATALL command without any additional options, the **Catalog Objects in Library** screen is displayed, which you use to perform the functions described below. You can also issue the CATALL command directly using the command syntax shown above.

You can also select functions on the **Catalog Objects in Library** screen by default using the subprogram CATALLU2. In addition you may enable CATALLU2 to be called in batch or command mode. The subprogram is delivered in source form in library SYSTEM (FNAT). To activate the subprogram, modify it as described in its source, then catalog it and copy it to SYSLIB. The subprogram is called before the **Catalog Objects in Library** screen is output.

See also *Object Naming Conventions* in the *Using Natural* documentation.

This chapter covers the following topics:

- Catalog Objects from/to

- Recatalog Only Existing Modules, or Catalog All Sources

- Select Object Types

- Select Function

- Select Options

- Selection List

- Direct Command Syntax

Catalog Objects from/to

If you wish CATALL to be performed for *all* objects of the selected types in the current library, specify an asterisk (*) as object name in the **from** field.

If you wish CATALL to be performed for a certain range of objects, you can use asterisk notation (*) and wildcard notation (?) for the name in the **from** field, as described for the system command LIST.

You can also specify a start setting and an end setting for a certain range of objects by entering corresponding object names (without asterisk or wildcard notation) in the **from** and **to** fields.

Instead of entering settings in these fields, you can also select objects from a selection list.

Moreover, you can use the **from** field to enter the name of an object of type text which contains a list of CATALL commands. The CATALL commands contained in the text will then be executed. You can either create such a text manually or have it created automatically when you use the selection list.

Recatalog Only Existing Modules, or Catalog All Sources

This option only applies to the functions Catalog and Stow:

- If you mark the first of the two fields, only those objects for which object modules already exist in the current library will be cataloged again; objects which only exist in source form will not be cataloged.

- If you mark the second of the two fields, *all* selected objects will be cataloged.

Note:
This option does not apply to objects of type copycode and text.

Select Object Types

By default, CATALL applies to objects of all types in the current library (all object types are marked with X).

If you wish objects of a certain type not to be processed by CATALL, overwrite the respective X with a blank.

Select Function

You can select one of the following functions to be applied to the selected objects: SAVE, CATALOG, STOW or CHECK. The functions correspond to the system commands of the same names.

Note:
Objects of type copycode and text will be saved, even if you select Stow. They will not be saved, if you select Catalog.

Select Options

You can select one or more of the following options for CATALL processing:

Condition Code in Batch	If you execute CATALL in batch mode and mark this option with a character, Condition Code 55 will be returned either if a syntax error is detected during CATALL execution or if no objects are found within the specified range of objects to be processed (applies to CATALOG and STOW only).
Renumber Source-Code Lines	By default, the source-code lines of sources that were saved or stowed are also renumbered. If you wish no automatic renumbering of lines, overwrite the X in this field with a blank.
Keep Result List	CATALL generates a result list. If you wish to keep this list for further use, mark this field with a character. The library SYSEXT contains the application programming interface USR1024N, which you can use to output the result list. You can also re-display the result list with another CATALL command. Since the parameters are also stored in the result list, the parameters of the CATALL which created the result list are valid. In batch, if a library contains a result list, it is displayed automatically with a CATALL command. In this case, the batch CATALL job will issue a message and because no modules will be cataloged the job will end with Condition Code 56. Online, if a library contains a result list, you will be asked whether to display the previous result list or start a new CATALL run.
Processing Information	During online processing, CATALL shows a scrolling display of processing status information. During batch processing, CATALL only outputs the modules which caused an error. To suppress this display, overwrite the X in this field with a blank.
Error Report	At the end of processing, CATALL displays a list of the errors that occurred. To suppress this error list, overwrite the X in this field with a blank.
Extended Error Report	The error report will be output in extended form, with directory information, error line and error message. To output the Extended Error Report, mark this field with an X.
PF4 AddOp	Pressing PF4 causes a window to appear in which you can select or enter additional options. Error Text Member: Enter the name of a Natural text member. An error list of a CATALL run will be written to this text member.

Selection List

If you wish to use CATALL only for certain objects, you can select these objects from a selection list.

To do so, first make the desired specifications under Select Function and Select Options, and then press PF5. A list of the objects stored in the current library is displayed.

The list corresponds to that of the system command LIST. Scrolling the selection list and the specification of new selection criteria on the list is also done in the same way as with the LIST command.

On the list, select the desired objects by marking them with a character in the column Cmd. To simultaneously select *all* objects of the current selection list, press PF5. You can then scroll the list, specify other selection criteria, and select further objects.

When you have selected all objects you wish to process, press PF3.

A window is displayed which allows you to store the selected set of objects so that you can re-use it in other CATALL processing:

- If you enter a name in the window, the selected set of objects will automatically be stored (in the form of CATALL commands) in an object of type text of that name. You can later use that text name in the field **Catalog Objects from** of the **Catalog Objects in Library** screen.

- If this is not desired, press ENTER without entering anything in the window.

CATALL will then begin to process the selected objects.

Direct Command Syntax

For the various specifications you can make on the **Catalog Objects in Library** screen, there are also corresponding options which you can specify directly with the system command CATALL:

object-name **TO** *object-name*	Corresponds to the fields **Catalog Objects from** and **to** of the **Catalog Objects in Library** screen, see *Catalog Objects from/to*.
RECAT / ALL	Corresponds to the options **Recatalog Only Existing Modules**, or **Catalog All Sources** of the **Catalog Objects in Library** screen. RECAT is the default, see *Recatalog Only Existing Modules, or Catalog All Sources*.

TYPES *types*	Corresponds to the object types marked on the **Catalog Objects in Library** screen, see *Select Object Types*. Possible *types* are:
	G Global data areas
	A Parameter data areas
	L Local data areas
	C Copycodes
	T Texts
	S Subroutines
	N Subprograms
	H Helproutines
	M Maps
	P Programs
	4 Classes
	* All types (this is the default)
	The *types* have to be specified as *one* character string, for example, "LAG" for local, parameter and global data areas. By default, CATALL applies to objects of all types in the current library.
SAVE / CATALOG / STOW / CHECK	Corresponds to the actions of the same names on the **Catalog Objects in Library** screen, see *Select Function*. CATALOG is the default.

options	These options correspond to **Select Options** on the **Catalog Objects in Library** screen, see *Select Options*. Possible *options* are:	
	CC	Condition Code will be returned.
	NOREN	No automatic renumbering of source-code lines.
	KEEP	Result list will be kept.
	NOSCROLL	Online: scrolling display of processing status information will be suppressed. Batch: output of only those modules, which caused an error.
	NOREPORT	Error report will be suppressed.
	FULL	Error report will be extended.
	EL *<text-member>* [R]	
	EL *<text-member>*	Output error list to a Natural text member.
	R	If a member already exits, the EL parameter is disabled, unless R (replace) is specified behind *<text-member>*.
	Note: If you specify NOREPORT *and* NOSCROLL, KEEP will automatically apply, too.	
text-name	Corresponds to specifying a text name in the **Catalog Objects from** field of the **Catalog Objects in Library** screen, see *Catalog Objects from/to*.	

Examples:

▶ **To stow only objects for which object modules already exist**

- Enter the following command:

```
CATALL * STOW KEEP CC NOREN
```

The above command is with implicit RECAT and has the same effect as the following command.

```
CATALL * RECAT STOW KEEP CC NOREN
```

▶ To stow all objects

- Enter the following command:

```
CATALL * ALL STOW KEEP CC NOREN
```

Note:
The individual command components must be separated from one another either by a blank or by the input delimiter character (as defined with the session parameter ID).