Problem Determination Guide

The items listed below are cross-referenced by Natural for DL/I error messages. They are supplied to advise Natural programmers, DL/I database administrators and system support personnel of actions required to correct a given problem.

Item Number	Corresponding Action

1	**Activate Natural Trace Facility for DL/I**
	
	Note:
	The Natural trace facility for DL/I is available in all Natural for DL/I environments.
	
	To activate the Natural trace facility for DL/I (Dynamic Trace Activation)
	
	● Execute the command `NDLTRACE` in library `SYSDDM` as follows:
	
	`NDLTRACE ON parm1 parm2 parm3`
	
	Permitted values for trace parameters are either `CMD`, `SER`, `ROU` (according to the specifications in the given error message) or `ALL` to trace all events of Natural for DL/I.
	
	To activate the Natural trace facility for DL/I (Initial Trace Activation)
	
	1. Code the `TRACE` parameter in the `NDLPARM` module according to the specifications in the given error message.
	
	   Or:
	
	   Specify `TRACE=ALL` to trace all events of Natural for DL/I.
	
	2. Assemble the `NDLPARM` module.
	
	3. Link-edit the load module that contains Natural for DL/I.
	
	To create and display the Natural trace for DL/I
	
	1. Start the Natural session with `DSIZE=64` (or smaller).
	
	   This is required because the trace data is written into the `DSIZE` buffer.
	
	2. Activate the trace facility (see above) and specify the following commands:
	
	`TEST DBLOG D` Start `DBLOG` for DL/I.
	`...` Reproduce your problem here.
	`TEST DBLOG D` Display the data logged.

2	**Obtain the Program Listing**
3	**Obtain the View Listing**

Item Number	Corresponding Action
4	**Obtain the DBD Macros**
5	**Obtain the PSB Macros**
6	**Obtain the NDB Description Printout** To obtain the printout, execute the Natural module `NDLBLOCK` in the library `SYSDDM` with the following parameters: • block type (3 bytes alphanumeric) = `NDB` • block name (8 bytes alphanumeric) = *dbd-name*
7	**Obtain the NSB Description Printout** To obtain the printout, execute the Natural module `NDLBLOCK` in the library `SYSDDM` with the following parameters: • block type (3 bytes alphanumeric) = NSB • block name (8 bytes alphanumeric) = *psb-name*
8	**Obtain the UDF Description Printout** To obtain the printout, execute the Natural module `NDLBLOCK` in the library `SYSDDM` with the following parameters: • block type (3 bytes alphanumeric) = `UDF` • block name (8 bytes alphanumeric) = *db-id**file-number* (that is, 3 digits for the database ID, a literal separator "**" and 3 digits for the *file-number*)
9	**Obtain a DUMP**
10	**Obtain the NDLPARM Listing**
11	**Obtain the NATDBD Procedure Output**
12	**Obtain the NATPSB Procedure Output**