

# ABEND and Response Codes

This chapter covers the following topics:

- ABEND Codes
- Response Codes

## ABEND Codes

ABEND (abnormal end) codes are issued primarily by Adabas modules operating with Entire Net-Work. In addition to those listed in the *Adabas Messages and Codes* documentation, the following ABEND codes specific to the NETSIP/NETSIR initialization programs may also appear:

Code	Module	Explanation
800	NETSIP/OS	Invalid operating system detected: not OS/390 or z/OS
801	NETSIP/OS	Parameter error detected
802	NETSIP/OS	Addressing or residency mode, authorization error, or operating system is not a virtual machine guest
803	NETSIP/OS	Error detected during program loading or validation
804	NETSIP/OS	Space allocation failure
806	NETSIP/OS	NETSIR initialization failed

Entire Net-Work itself issues only the ABEND code 253 to indicate that an abnormal termination occurred. The specific termination information is given in the messages written to the print dataset.

## Response Codes

Adabas response codes that refer to problems with the interregion communication in one way or another may occur when running Entire Net-Work. Refer to the *Adabas Messages and Codes* documentation for information about these codes.

In Entire Net-Work environments, the cause for these response codes is not always as apparent as in single systems. This is due to the fact that all calls are passed through interregion communications in two places: first they are passed from the user's task to Entire Net-Work; then, on the server's node, they are passed from Entire Net-Work to the server. In both instances, the same types of errors may occur. Therefore it is sometimes difficult if not impossible to determine the node on which the problem was encountered.

To aid in diagnosing such situations, Entire Net-Work provides the node ID (target ID) of the Entire Net-Work node where the problem was encountered for all problems related to these response codes. The information is returned in the additions 2 field of the Adabas control block. Note that this field is not modified by Entire Net-Work under any other circumstances. In some cases, where the problem prevents the call from reaching Entire Net-Work on the user's node, the information obviously cannot be provided by Entire Net-Work.

In addition, a group of Adabas codes ranging from 220 through 229 is reserved for use by Entire Net-Work (222, 223, 225-228 are not currently used):

### **Response 220**

**Explanation** Buffer shortage: the request was rejected by Entire Net-Work due to a shortage of short term buffers. The additions 2 field in the Adabas control block contains the node ID of the node in error in the leftmost 2 bytes.

**Action** Increase the size of the short term buffer allocated on the BUFFERS= parameter of the NODE statement.

### **Response 221**

**Explanation** The LU size of the remote partner is smaller than the size required for the Adabas request.

**Action** Either increase the size specified for the LU= parameter on the remote system, or modify the application to reduce its buffer sizes.

### **Response 224**

**Explanation** Reply timeout: the request waited for a reply for a longer time period than specified by the REPLYTIM= parameter in either the NODE statement or the SET operator command. The reply may be delayed or lost due to a target malfunction, or because of a connecting link failure.

**Action** This message is for information only.

### **Response 229**

**Explanation** Translation error: the Entire Net-Work converter detected an inconsistency and/or error in the application format buffer or search buffer and is unable to correctly translate the user's data.

**Action** This message is for information only.