
SPICE

Span Integrated Checkpoint/Restart Environment

SPICE SQL™ & SPICE DL/I™ Diagnostic Reference Manual

Release 3.1

SPI 10 15

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Preface

Abstract

SPICE is an acronym for Span Integrated Checkpoint/Restart Environment.

SPICE SQL™ and SPICE DL/I™ are software products that simplify the design, implementation and operation of restartable batch application programs in the DB2 and IMS environments, respectively.

This manual is the reference for messages and other diagnostic indicators issued by the SPICE™ products.

Other SPICE Manuals

SPI 08 SPICE SQL™ Product Reference Manual

The principal reference for SPICE SQL, the SPICE product for the DB2 environment.

SPI 09 SPICE DL/I™ Product Reference Manual

The principal reference for SPICE DL/I, the SPICE product for the IMS environment.

SPI 14 SPICE SQL™ & SPICE DL/I™ Getting Started

The reference for the installation of the SPICE products.

Note:

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Chapter 1. Introduction

Using This Manual

This manual is the principal reference for the diagnostic messages and codes issued by SPICE SQL and SPICE DL/I.

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The messages issued by SPICE SQL and SPICE DL/I.
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The diagnostic information returned by SPICE to the application program. It is orientated towards programmers writing SQL application programs.
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The diagnostic information returned by SPICE to the application program. It is orientated towards programmers writing DL/I application programs.
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The failure codes issued by SPICE SQL and SPICE DL/I.
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The contents of the SPICE formatted dump. It is intended for systems programmers responsible for notifying the vendors of SPICE SQL and SPICE DL/I of problems experienced while executing the products.

A number of entries in this manual suggest that problems be referred to the technical support team responsible for SPICE. These entries highlight situations that could indicate problems in the SPICE products. Resolution of such problems may require that technical support personnel consult with the vendors of the SPICE software.

SPICE SQL & SPICE DL/I Program Diagnostics

When processing SPICE requests issued via SQL statements, SPICE SQL returns diagnostic information in the SQL communication area, the SQLCA. It returns the data in the SQLCODE, SQLSTATE and SQLERRM fields. SPICE uses the same values as those returned by DB2, in similar circumstances. Chapter 3 documents the values that these fields can take.

For SPICE requests issued via DL/I statements, SPICE DL/I returns diagnostic information in the request PCB. It returns the data in the status code field. SPICE uses the same values as those returned by IMS, in similar circumstances. Chapter 4 documents the values that this field can take.

When the SPICE Restart API is used to issue SPICE requests, SPICE SQL returns diagnostic information in the SPICE Restart API communication area, the SRACA. It returns the data in the SRACODE, SRASTATE, SRAERRM and SRASTAT fields. The values conform to those returned by DB2 and IMS, in the SQLCODE, SQLSTATE and

SQLERRM fields of the SQLCA and the status code field of the IMS PCB, respectively. Chapters 3 and 4 document the values.

Chapter 2. SPICE SQL™ and SPICE DL/I™ Messages

Introduction

SPICE messages are prefixed “SPIInnnn”, where “nnnn” is the number of the message and “c” indicates the message type. The message type can be “I”, “W” or “A”. Messages suffixed “I” are for information only. Messages suffixed “W” are warning messages and indicate a condition that the operator may wish to take action upon, by cancelling the job, or notifying the user, for example. Messages suffixed “A” indicate a condition that the operator must take action upon, reply to a message for instance.

For each SPICE message the following information is provided:

- Explanation:** What the message means; why it occurred; what caused it. Explanations specific to a particular product are labelled appropriately, **SPICE SQL Explanation** for instance.
- System Action:** What SPICE will do as a result of the condition.
- Programmer and/or Operator Response:** What the programmer and/or operator should do when the condition occurs.

Identification Messages

The messages issued by SPICE to the z/OS operator and z/OS job log are accompanied by one or more identification messages. These messages are prefixed by the text “...”. The following example illustrates their format:

```
17.42.23 JOB 1234 +SPI0504I SQL REQUEST FAILURE: OMITTED VALUE
17.42.23 JOB 1234 + ... SQL SELECT FROM SPIVCOBA STATEMENT NUMBER 0898
17.42.23 JOB 1234 + ... JOB=SPICETST, STEP=DSNTIRU , PROGRAM=SPICIBA
```

Example 2.1: SPICE job log message

The example shows both types of identification message. The first documents which SQL statement caused the message to be written, and the second which job and step generated the message.

SQL Statement Identification Message

SPICE messages that derive from the processing of an SQL statement are immediately followed by the following message.

- ... **SQL type REQUEST FROM module STATEMENT NUMBER n**
 - This message identifies the program module, type and number of the SQL statement that has resulted in the preceding message.
 - SPICE SQL extracts the reported statement number from the DB2 parameter list, from field SQL-STMT-NUM. The DB2 pre-compiler generates the parameter list, and the statement number is unique within the module.

Use the following procedure to locate the identified SQL statement in a COBOL program:

- 1) Examine the compilation listing for the reported module and locate the instance of variable SQL-STMT-NUM with the reported value.
- 2) Note the name of the structure of which it is part. It will be in the form SQL-PLISTnn, where nn is numeric.
- 3) Scan the compilation listing for a statement specifying the structure located in the preceding step in the format:

CALL 'DSNHLL' USING SQL-PLISTnn

- 4) Observe the SQL statement immediately preceding this call, commented out by the DB2 pre-compiler. This is the SQL statement identified by the message.

Topic SPICE SQL Programming Diagnostics in *SPICE SQL Product Reference Manual* contains further information..

Job Identification Message

The following message follows most SPICE messages issued to the z/OS operator. It identifies the job name, job step name and program name. SPICE identifies the SPICE SAM file that the message relates to, when appropriate.

... JOB=jjjjjjj, STEP=sssssss, PROGRAM=mmmmmmm[,PSB=pppppppp]
[,SSAM DDNAME=ddddddd]

This message identifies the job, the step and the program using SPICE. SPICE DL/I also identifies the IMS PSB. If the condition relates to a SPICE SAM file it also identifies the file DD name.

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Messages SPI0000-SPI0099

SPI0000I *ABEND* SPICE INTERNAL ERROR, CODE x

SPI0000I *ABEND* SPICE PARSING INTERNAL ERROR, CODE x

Explanation: This message is issued when SPICE determines an error from which it cannot recover, and which cannot be attributed to an error by the application program, or user. The first variant of the message is issued by the SPICE application interface, and the second by the SPICE utility program command parsing routines. The failure codes are documented in Chapter 6 of this manual.

System Action: The SPICE application interface will ABEND with user code 4090, for the first variant of the message. For the second variant the SPICE utility program, SPIUT100, will ABEND with user code 4091.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0002I DDNAME NOT FOUND FOR SPICE SAM FILE

Explanation: An attempt was made to open a SPICE SAM file for which no file was allocated in the job step.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR002" in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRA CODE of -681, an SRA STATE of "SR002" and an SRA STAT of "AI" in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0004W SSAM I/O REQUEST WHEN RESTART REQUIRED

SPICE SQL Explanation: SPICE loses synchronization with DB2 if the database updates are backed out, without the SPICE SAM file positions, or the restart program areas, being reset. This occurs when the program issues an SQL "ROLLBACK" statement, or when SPICE detects a condition that reflects database backout, SQLCODE of -911 for instance. If the program continues processing, SPICE will be unable to restart consistently. This message is issued on the first SPICE SAM request after SPICE loses synchronization. Synchronization can be restored by the program issuing a SELECT to the SPICE_PAM table.

SPICE DL/I Explanation: SPICE loses synchronization with IMS if the databases are backed out, without the SPICE SAM file positions, or the restart program areas, being reset. This occurs when the program issues a DL/I "ROLB" call, or if SPICE detects a condition that reflects database backout, PCB status code of "FD" for instance. If the program continues processing, SPICE will be unable to restart consistently. This message is issued on the first SPICE DL/I SAM request after SPICE loses synchronization. Synchronization can be restored by the program re-issuing its "XRST" call.

SPICE Restart API Explanation: SPICE loses synchronization with the database management system if the database updates are backed out, without the SPICE SAM file positions, or the restart program areas, being reset. This occurs when the program issues a rollback request, or when SPICE detects a condition that reflects database backout, SQLCODE of -911 for instance. If the program continues processing, SPICE will be unable to restart consistently. This message is issued on the first SPICE SAM request after SPICE loses synchronization. Synchronization can be restored by the program issuing a program area declaration statement.

System Action: SPICE continues execution.

Operator Response: Consult the operating instructions for the application.

SPI0005I SPICE SAM FILE CHANGE OF USE SINCE RESTART

Explanation: An attempt was made to open a SPICE SAM file for input, following a restart, when the file was previously open for output, or vice-versa.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR005" in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRASTATE of "SR005" and an SRASTAT of "AI" in the SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0006I DL/I REQUEST FAILURE: INVALID OPEN I/O AREA

SPICE DL/I Explanation: An OPEN request was issued, when the I/O area contained other than: "INP", "OUT", "OUTA" or "OUTM".

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

Programmer Response: Correct the problem and restart the job.

SPI0008I *ABEND* APPLICATION REPOSITION REQUEST AGAINST UNIT RECORD SSAM FILE

SPICE DL/I Explanation: A SPICE DL/I "GU" request was made against a SPICE SAM file that could not be re-positioned, e.g. a JES SYSIN file.

SPICE Restart API Explanation: A re-position request was made against a SPICE SAM file that could not be re-positioned, e.g. a JES SYSIN file.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0009I OPEN REQUEST WHEN FILE ALREADY OPEN

Explanation: An OPEN request was issued, when the file was already open.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR009" in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRASTATE of "SR009" and an SRASTAT of "AI" in the request SRACA.

Programmer Response: Correct the problem and restart the job.

SPI0012W SPICE SAM FILE REPOSITION NOT SUPPORTED, RESTART WILL NOT BE ATTEMPTED

Explanation: The SPICE SAM file being opened cannot be repositioned, e.g. PDS member, concatenated file or JES SYSOUT or SYSIN file. Upon a restart SPICE will not be able to reposition the file.

System Action: SPICE continues execution.

Programmer/Operator Response: Consult the operating instructions for the application.

SPI0014I *ABEND* SPICE SAM REQUEST FAILURE, INVALID PCB ADDRESS

SPICE DL/I Explanation: An attempt has been made to access a SPICE SAM file through a PCB other than that which was used to open it, and is currently in use.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0018I *ABEND* SPICE ROUTINE rrrrrrrr FAILURE, RETURN CODE = nnnn

Explanation: SPICE routine "rrrrrrr" has returned a non-zero return code "nnnn".

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0019I *ABEND* UNSUPPORTED REGION TYPE

SPICE DL/I Explanation: SPICE DL/I was unable to determine the region type.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0020I *ABEND* APPLICATION ATTEMPTED TO ACCESS SPICE RESTART PCB

SPICE DL/I Explanation: The application program has made a request to the SPICE restart database PCB.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0022I DL/I REQUEST FAILURE: INVALID SSAM FUNCTION CODE

SPICE DL/I Explanation: An invalid function code was used against a SPICE SAM file PCB.

SPICE DL/I System Action: SPICE will return a status code of "AD" in the request PCB.

Programmer Response: Correct the problem and restart the job.

SPI0023I DL/I REQUEST FAILURE: I/O AREA OMITTED

SPICE DL/I Explanation: A DL/I request was issued against a SPICE SAM file PCB which omitted a required I/O area.

SPICE DL/I System Action: SPICE will return a status code of "AB" in the request PCB.

Programmer Response: Correct the problem and restart the job.

SPI0024I DL/I REQUEST FAILURE: SSA OMITTED

SPICE DL/I Explanation: A DL/I request was issued against a SPICE SAM file PCB that omitted a required SSA.

SPICE DL/I System Action: SPICE will return a status code of "AH" in the request PCB.

Programmer Response: Correct the problem and restart the job.

SPI0025I DL/I REQUEST FAILURE: TOO MANY SSA'S

SPICE DL/I Explanation: A DL/I request was issued against a SPICE SAM file PCB that specified too many SSA's.

SPICE DL/I System Action: SPICE will return a status code of "AJ" in the request PCB.

Programmer Response: Correct the problem and restart the job.

SPI0026I SPICE SAM FAILURE: INPUT REQUEST AGAINST OUTPUT FILE, OR VICE-VERSA

SPICE SQL Explanation: The application program has issued a FETCH statement against an open output file, or an INSERT to an open input file.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR026" in the request SQLCA.

SPICE DL/I Explanation: The application program has issued a GN or GU request against an open output file, or an ISRT to an open input file.

SPICE DL/I System Action: SPICE will return a status code of "AM" in the request PCB.

SPICE Restart API Explanation: The application program has issued an input statement against an open output file, or vice-versa.

SPICE Restart API System Action: SPICE will return an SRA CODE of -681, an SRA STATE of "SR026" and an SRA STAT of "AM" in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0027I DL/I REQUEST FAILURE: I/O AREA INAPPROPRIATE

SPICE DL/I Explanation: A DL/I request was issued against a SPICE SAM file PCB that specified an I/O area, when one was not required.

SPICE DL/I System Action: SPICE will return a status code of "AT" in the request PCB.

Programmer Response: Correct the problem and restart the job.

SPI0028I SPICE SAM FAILURE: REQUEST AGAINST UNOPENED FILE

Explanation: The application program has issued a close request against a SPICE SAM file that is not open, or any request against a file that could not be opened.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR028" in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRASTATE of "SR028" and an SRASTAT of "AI" in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0030I SPICE SAM FILE OPEN FAILURE

SPICE SQL Explanation: SPICE SAM was unable to open the file specified in an OPEN statement against a SPICE SAM cursor or a SPICE SAM UPDATE statement requesting update file open.

This can be caused by re-opening a SPICE SQL sequential file cursor following a commit point. SPICE SQL file cursors remain open following commit points.

SPICE SQL System Action: SPICE SQL will return an SQLCODE of "-681" and an SQLSTATE of "SR030" in the SQLCA. Control is returned to the application program.

SPICE DL/I Explanation: An "OPEN" request for a SPICE SAM file failed.

SPICE DL/I System Action: SPICE DL/I will return a status code of "AI" in the IMS PCB. Control is returned to the application program.

SPICE Restart API Explanation: An open request for a SPICE SAM file failed.

SPICE Restart API System Action: SPICE SQL will return an SRACODE of "-681", an SRASTATE of "SR030" and an SRASTAT of "AI" in the SRACA. Control is returned to the application program.

Programmer/Operator Response: Consult the operating instructions for the program.

SPI0031I SPICE SAM RECORD LENGTH EXCEEDS FILE SPECIFICATION

Explanation: The record length of an output request against a SPICE SAM file exceeds that of the file.

SPICE SQL System Action: SPICE will return an SQLCODE of -302 and an SQLSTATE of "SR031" in the SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AF" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRACODE of -302, an SRASTATE of "SR031" and an SRASTAT of "AF" in the SRACA.

Programmer Response: Correct the problem and restart the job.

SPI0032I SPICE SAM FAILURE: RECORD TOO LONG FOR INPUT REQUEST

SPICE SQL Explanation: The next record from a SPICE SAM input file is longer than the host variable or host structure specified in the FETCH statement.

This can be caused by assigning the wrong file to the program. It can also be caused by incorrect specification of the record I/O area structure.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR032" in the request SQLCA.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRASTATE of "SR032" and an SRASTAT of "AF" in the SRACA.

Programmer/Operator Response: Correct the program or file and restart the job.

SPI0033I SPICE SAM FAILURE: UNSUPPORTED FILE TYPE

SPICE Explanation: A SPICE SAM statement has been issued against a file whose type is not supported by SPICE SAM.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR033" in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRASTATE of "SR033" and an SRASTAT of "AI" in the SRACA.

Programmer/Operator Response: Copy the file to a supported file type and restart the job.

SPI0035I SPICE SAM OPEN FAILURE, INVALID FILE TYPE

Explanation: A SPICE SAM statement has been issued against a file whose type is not supported by SPICE SAM, e.g. ISAM.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR035" in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRA CODE of -681, an SRA STATE of "SR035" and an SRA STAT of "AI" in the SRACA.

Programmer/Operator Response: Copy the file to a supported file type and restart the job.

SPI0037I BSAM ABEND IN SSAM PROCESSING

Explanation: An ABEND occurred in BSAM whilst processing a request against a SPICE SAM file.

Possible causes of this message are:

- During restart, when a file has been copied incorrectly before restarting the program. To copy SPICE SAM files, after abend B37 for instance, the procedure detailed in *SPICE SAM Dataset Recovery/Restart* in the appropriate *SPICE Product Reference Manual* must be followed.
- Physical failure of the dataset.

SPICE SQL System Action: SPICE SQL will return an SQLCODE of "-681" and an SQLSTATE of "SR037" in the SQLCA. Control is returned to the application program.

SPICE DL/I System Action: SPICE DL/I will return a status code of "NO" in the IMS PCB. Control is returned to the application program.

SPICE Restart API System Action: SPICE will return an SRA CODE of -681, an SRA STATE of "SR037" and an SRA STAT of "NO" in the SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0038I SSAM BSAM I/O ERROR

Explanation: SPICE encountered an I/O error whilst processing a SPICE SAM record request. A description of the error will be found in the accompanying "SPI0041I" message.

Possible causes of this message are:

- During restart, when a file has been copied incorrectly before restarting the program. To copy SPICE SAM files, after abend B37 for instance, the procedure detailed in *SPICE SAM Dataset Recovery/Restart* in the appropriate *SPICE Product Reference Manual* must be followed.
- Physical failure of the dataset.

SPICE SQL System Action: SPICE SQL will return an SQLCODE of "-681" and an SQLSTATE of "SR038" in the SQLCA. Control is returned to the application program.

SPICE DL/I System Action: SPICE DL/I will return a status code of "NO" in the IMS PCB. Control is returned to the application program.

SPICE Restart API System Action: SPICE will return an SRA CODE of -681, an SRA STATE of "SR038" and an SRA STAT of "NO" in the SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0039W SSAM FILE CANNOT BE RESTARTED - NO SPICE RESTART DATABASE

SPICE DL/I Explanation: There is no SPICE IMS restart database PCB in the PSB. The message informs the user that SPICE will be unable to reposition the indicated file upon any subsequent restart from a commit point.

System Action: Control is returned to the application program.

Operator Response: Consult the operating instructions for the application.

SPI0041I SSAM SYNAD MESSAGE : <SYNADAF text>

Explanation: This message documents the error message generated by the BSAM "SYNADAF" macro. It accompanies SPICE message "SPI0038" identifying an I/O error whilst processing a SPICE SAM request. Consult the operating system documentation for an explanation of the "SYNADAF" text.

System Action: See the description of message "SPI0038".

Programmer/Operator Response: See the description of message "SPI0038".

SPI0042W NON-RESTARTABLE PROGRAM TERMINATED

Explanation: The program, identified in the following job identification message, has completed its execution. The program was not restartable.

System Action: Control is returned to the application program.

Operator Response: Consult the operating instructions for the application.

SPI0044W NUMBER OF SSAM BUFFERS SPECIFIED EXCEEDS MAXIMUM, RESET TO 255

Explanation: The DCB of the SPICE SAM BSAM file specified more than 255 buffers, the maximum SPICE allows.

System Action: SPICE resets the number of buffers to 255, and returns control to the application.

Programmer/Operator Response: Correct the application JCL to prevent the message being issued again.

SPI0045I SPICE SAM FAILURE: DCB ABEND DURING OPEN

SPICE Explanation: An ABEND occurred during BSAM file open processing.

Possible causes of this message are:

- Invalid file DCB specification

SPICESQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR045" in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRASTATE of "SR045" and an SRASTAT of "AI" in the SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0046W *ABEND* BAD RETURN CODE FROM NOTE/POINT/SYNCDEV - RETURN CODE = xxxx, REASON CODE = yyyy

Explanation: SPICE SAM received invalid return code "xxxx", reason code "yyyy", from a call to z/OS NOTE, POINT or SYNCDEV.

System Action: SPICE will ABEND with user code 4090.

Operator Response: Consult z/OS documentation for the meaning of the error codes documented in the message, correct the problem accordingly, and restart the job.

SPI0050I NUMBER OF SPICE SAM BUFFERS INADEQUATE FOR REPOSITION

Explanation: Reposition of a SPICE SAM file, typically performed during restart, requires more buffers than are defined. The number of buffers is 8, unless specified explicitly in the program JCL.

- This problem can arise following an "x37" abend failure, when the program JCL restricts the number of buffers. Recovering the file with the utility "REPRO" command, using the default number of buffers, can result in a reposition address requiring more buffers than is defined in the restart JCL.

SPICESQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR050" in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of "AI" in the request PCB.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRASTATE of "SR050" and an SRASTAT of "AI" in the SRACA.

Programmer/Operator Response: Increase the number of buffers for the file, by coding "DCB=BUFNO=value" in the JCL, and restart the job.

Messages SPI0100-SPI0199

SPI0101I *ABEND* SPICE JOB SUSPENDED

Explanation: SPICE is suspending execution of the job in response to a "CHANGE . . . SUSPEND" command from the SPICE utility program.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Issue the SPICE utility "CHANGE . . . RELEASE" command to allow the job to be restarted from a commit point.

SPI0102I *ABEND* RESTART PSB CHANGED FROM LAST CHECKPOINT

SPICE DL/I Explanation: The contents of the PSB used to restart the program have changed since the last successful checkpoint.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0104I *ABEND* RESTART PROGRAM AREA LIST CHANGED SINCE LAST CHECKPOINT

SPICE DL/I Explanation: The list of program areas specified in the last successful checkpoint cannot be fitted into the areas specified in the “XRST” call.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0105W SPICE RESTART DATABASE DBDNAME INVALID, SPICE RESTART NOT AVAILABLE

SPICE DL/I Explanation: The last update PCB in the PSB beginning “SPIC” does not have a prefix of “SPICH”, “SPICD” or “SPICM”. SPICE cannot use it for a restart PCB. As SPICE has no restart database, it cannot perform SPICE restart control.

System Action: Control is returned to the application.

Operator Response: Consult the operating instructions for the application.

SPI0106W NO SPICE RESTART DATABASE IN PSB, SPICE RESTART NOT AVAILABLE

SPICE DL/I Explanation: The PSB does not contain an update PCB with a prefix of “SPIC”. SPICE cannot find a restart database PCB. As SPICE has no restart database it cannot perform SPICE restart control.

System Action: Control is returned to the application.

Operator Response: Consult the operating instructions for the application.

SPI0107W SPICE RESTART DISABLED, SPICE RESTART NOT AVAILABLE

Explanation: The entry in the SPICE database for the application has been flagged “RESTART DISABLED”. SPICE will not perform SPICE restart control.

System Action: Control is returned to the application.

Programmer/Operator Response: To prevent the message being issued, use the SPICE utility “CHANGE . . . SPICERESTART(YES)” option.

SPI0109I SPICE RESTART DATABASE CANNOT BE ACCESSED - DATABASE NOT INITIALIZED

Explanation: The SPICE restart database has not been initialized for use by SPICE. It does not contain a “DEFAULTS” entry.

System Action: If the program is restartable, SPICE will issue message SPI0117I and then ABEND with user code 4090. Otherwise, control is returned to the application.

Programmer/Operator Response: To prevent a recurrence of the message or ABEND, initialize the database with the SPICE utility program and restart the job.

SPI0110I [*ABEND*] BAD DL/I STATUS CODE FROM CALL TO SPICE RESTART DATABASE, FUNCTION=ffff STATUS CODE=cc

SPICE DL/I Explanation: A DL/I call by SPICE DL/I to the restart database, using function code “ffff”, returned the unexpected PCB status code “cc”.

SPICE DL/I System Action: If the message includes the text “*ABEND*”, SPICE will ABEND with user code 4090. Otherwise, control will be returned to the application program, with the status code returned in the request PCB.

SPICE SQL System Action: If the message includes the text “*ABEND*”, SPICE will ABEND with user code 4090. Otherwise, control will be returned to the application program, with an SQLCODE of “-911” and an SQLSTATE of “SR110” returned in the request SQLCA.

SPICE Restart API System Action: If the message includes the text “*ABEND*”, SPICE will ABEND with user code 4090. Otherwise, control will be returned to the application program, with an SRACODE of “-911”, an SRASTATE of “SR110” and an SRASTAT of the status code in error returned in the request SRACA.

Programmer/Operator Response: Examine the reported IMS status code. If the cause of the problem is evident, correct it and restart the job. If not, refer it to your technical support team responsible for SPICE.

SPI0111I *ABEND* RESTART ENTRY INCOMPLETE

SPICE SQL Explanation: When performing restart SPICE could not find all of the restart data for the job in the restart database.

SPICE DL/I Explanation: When performing restart SPICE could not find all of the restart data for the job in the restart database. This can be caused by attempting to restart a SPICE DL/I program without first running IMS backout.

SPICE Restart API Explanation: When performing restart SPICE could not find all of the restart data for the job in the restart database. This can be caused by attempting to restart a DL/I program without first running IMS backout.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response (SPICE SQL): Refer the problem to your technical support team responsible for SPICE.

Programmer/Operator Response: For IMS batch jobs, check if IMS backout has been executed. If not, run backout and then restart the job. Otherwise, refer the problem to your technical support team responsible for SPICE.

SPI0112I PROGRAM RESTARTED FROM ccccccc

SPICE SQL Explanation: This message identifies which SPICE SQL commit point SPICE has restarted the program from.

SPICE DL/I Explanation: This messages identifies which SPICE DL/I checkpoint SPICE has restarted the program from.

SPICE Restart API Explanation: This message identifies which SPICE Restart API commit point SPICE has restarted the program from.

System Action: Control is returned to the application.

Programmer/Operator Response: None required.

SPI0113I *ABEND* MSDB RESTART DATABASE FULL

SPICE DL/I Explanation: No segments are available in the Fast Path restart database for this application.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Wait until other applications using the same database have completed, thereby freeing off space, before running the job. Alternatively increase the number of segments in the database before rerunning.

SPI0115W SPICE COMMIT POINT WHEN RESTART PENDING

SPICE SQL Explanation: SPICE SQL loses synchronization with DB2 if database updates are rolled back, without the SPICE SAM file positions, or the restart program areas, being reset. This occurs if the program issues an SQL "ROLLBACK" statement, or if certain SQLCODEs are returned from a commit statement, e.g. "-911". This message is issued on the first commit statement request after SPICE loses synchronization with DB2.

System SQL Action: SPICE SQL continues execution, but suspends SPICE commit processing. SPICE preserves the restart data for the program until it requests SPICE in-flight restart, or until it terminates.

SPICE DL/I Explanation: SPICE DL/I loses synchronization with IMS if the databases are backed out, without the SPICE SAM file positions, or the restart program areas, being reset. This occurs if the program issues a "ROLB" call, or if certain PCB status codes are returned from a checkpoint call, e.g. "FV". This message is issued on the first checkpoint request after SPICE loses synchronization with IMS.

SPICE DL/I System Action: SPICE continues execution, but suspends SPICE checkpoint processing. SPICE preserves the restart data for the program until it requests SPICE in-flight restart, or until it terminates.

SPICE Restart API Explanation: SPICE SQL loses synchronization with the database management system if database updates are rolled back, without the SPICE SAM file positions, or the restart program areas, being reset. This occurs if the program issues a rollback request st, or if certain SRACODEs are returned from a commit statement, e.g. "-911". This message is issued on the first commit request after SPICE loses synchronization with the database management system.

System Restart API Action: SPICE continues execution, but suspends SPICE commit processing. SPICE preserves the restart data for the program until it requests SPICE in-flight restart, or until it terminates.

Operator Response: Consult the operating instructions for the application.

SPI0116I SPICE RESTART DATABASE CANNOT BE ACCESSED - OPEN FAILURE

Explanation: The SPICE restart database was not available.

System Action: If the program is restartable, SPICE will issue message SPI0117I and then ABEND with user code 4090. Otherwise, control is returned to the application.

Programmer/Operator Response: To prevent a recurrence of the message or ABEND, correct the cause of the database open error and restart the job.

SPI0117I *ABEND* SPICE RESTART CANNOT PROCEED

Explanation: The application program requested a restart when the SPICE restart database was not available. SPICE was therefore unable to determine whether a restart was required. This message may follow SPICE error message SPI0109I or SPI0116I.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Correct the cause of the SPI0109I or SPI0116I message, and restart the program.

SPI0118I *ABEND* IN-FLIGHT RESTART FAILURE - RESTART LIMIT EXCEEDED

SPICE SQL Explanation: The application program attempted in-flight restart too often without an intervening successful commit point.

SPICE DL/I Explanation: The application program issued too many in-flight restart calls without an intervening successful checkpoint.

SPICE Restart API Explanation: The application program attempted in-flight restart too often without an intervening successful commit point.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Investigate the cause of the prior in-flight restart failures. Take any appropriate action before restarting the job.

SPI0119I IN-FLIGHT PROGRAM RESTART FROM cccccc

SPICE SQL Explanation: This message indicates that the application program has successfully restarted in-flight, and identifies the associated commit point.

SPICE DL/I Explanation: This message indicates that the application program has successfully issued an in-flight restart, and identifies the associated checkpoint.

SPICE Restart API Explanation: This message indicates that the application program has successfully restarted in-flight, and identifies the associated commit point.

System Action: Control is returned to the application.

Programmer/Operator Response: None required.

SPI0120I *ABEND* IN-FLIGHT RESTART FAILURE - INVALID REQUEST

SPICE DL/I Explanation: The application program requested an in-flight restart when the preceding call had not resulted in the databases being backed out to the previous commit point. This can be invoked explicitly by the application program, with a DL/I "ROLB" request, or implicitly by the host database management system. e.g. IMS PCB status code "FD".

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0121I *ABEND* SSAM I/O ERROR DURING COMMIT

SPICE SQL Explanation: An I/O error was detected against a SPICE SAM dataset, during the processing of an SQL "COMMIT" statement. SPICE was therefore unable to complete the commit.

SPICE DL/I Explanation: An I/O error was detected against a SPICE SAM dataset, during the processing of a DL/I checkpoint call. SPICE was therefore unable to complete the commit.

SPICE Restart API Explanation: An I/O error was detected against a SPICE SAM dataset, during the processing of a commit request. SPICE was therefore unable to complete the commit.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Determine the cause of the I/O error, making use of any associated SPI0037I, SPI0038I or SPI0041I messages. Correct the problem and restart the job.

SPI0122I APPLICATION TERMINATION WHEN RESTART OUTSTANDING - RESTART REQUIRED

SPICE SQL Explanation: SPICE has lost synchronization with DB2. This typically occurs when an application issues an SQL "ROLLBACK" statement. The application program has terminated. Application restart is required.

SPICE DL/I Explanation: SPICE has lost synchronization with IMS. This typically occurs when an application issues a DL/I "ROLB" call. The application program has terminated. Application restart is required.

SPICE Restart API Explanation: SPICE has lost synchronization with the database management system. This typically occurs when an application issues a rollback request. The application program has terminated. Application restart is required.

System Action: SPICE will retain the restart data in its database. The program will terminate, normally or abnormally, according to the value of the SPICE Restart Database Program/PSB entry "OUTOFSYNCTERM" option. If the application executes within the z/OS Language Environment, The SPICE User 4090 Abend will be intercepted by LE, which will then terminate with User 4088 Abend reason code 00000063 of module CEEBINIT.

Programmer/Operator Response: Restart the job.

SPI0124I INVALID ITEM - RESTART ENTRY CANNOT BE PROCESSED

SPICE DL/I Explanation: An attempt was made to restart from a restart entry created under an earlier release of SPICE.

System Action: When the problem occurs with a SPICE application program, SPICE will ABEND with user code 4090. When it occurs with the SPICE operator subsystem or utility program, SPICE will continue processing.

Programmer/Operator Response: Restart the program, using the SPICE resident library for the appropriate SPICE release.

SPI0150I *ABEND* BAD AIB CALL, FUNCTION ffff, RETURN CODE cccc, REASON rrrr

SPICE DL/I Explanation: SPICE DL/I received unexpected return codes from an AIB call. The function, return and reason codes are documented in the message.

System Action: SPICE will retain the restart data in its database.

Programmer/Operator Response: Examine the reported codes. If the cause of the message is apparent, correct the problem and restart the job. Otherwise refer the problem to your technical support team responsible for SPICE.

SPI0151I *ABEND* DBD LIBRARY NOT AVAILABLE

SPICE DL/I Explanation: SPICE DL/I was unable to process an AIB request, because it could not locate the appropriate DBD.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Ensure that a DBD library containing the appropriate entries is allocated to DDname "IMS", and restart the job.

Messages SPI0200-SPI0299

SPI0201W ABEND SYSTEM sss

SPI0201W ABEND USER uuuu

SPI0201W ABEND SYSTEM sss IN SPICE SUBTASK

SPI0201W ABEND USER uuuu IN SPICE SUBTASK

Explanation: This message identifies the abend code with which the application, or the SPICE subtask, is about to abend. System abends, "sss", are displayed as three hexadecimal digits, and user abends, "uuuu", as 4 decimal digits.

System Action: The job step will abnormally terminate.

Programmer/Operator Response: Dependent on the code and circumstances of the abend.

SPI0204I *ABEND* APPLICATION TERMINATION WITHOUT SPICE TERMINATION

Explanation: The application program has completed without SPICE automatic termination being successfully invoked.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0205I *ABEND* DUMP DATASET SPIUDUMP OPEN FAILURE

Explanation: The SPICE formatted dump routine was unable to open its dump dataset.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Check the DCB for the SPICE formatted dump dataset. It should be "RECFM=VBA,LRECL=125. . .". If not, correct the JCL or file and restart the job. Otherwise refer the problem to your technical support team responsible for SPICE.

SPI0206I SPICE DUMP DYNAMICALLY ALLOCATED TO SYSOUT=c

Explanation: The job did not have anything allocated to "SPIUDUMP", the DD name used by SPICE for its formatted dump. SPICE has dynamically allocated a SYSOUT file of the reported class to it.

System Action: SPICE will write its formatted dump to the allocated dataset.

Programmer/Operator Response: Print the formatted dump and include it in the problem documentation.

SPI0207I *ABEND* SPICE DUMP DYNAMIC ALLOCATION FAILURE, ERROR CODE=eeee, INFO CODE=cccc

Explanation: The job did not have a dataset allocated to "SPIUDUMP", the DD name used by SPICE for its formatted dump. SPICE attempted to dynamically allocate a SYSOUT file to it. The allocation failed with the indicated error and information codes.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Investigate the identified codes, using z/OS documentation. If the cause is not due to SPICE, correct the problem and restart the job. Otherwise, refer the problem to your technical support team responsible for SPICE.

SPI0208I SPICE HAS TAKEN A FORMATTED DUMP

Explanation: SPICE has written its formatted dump to the dataset allocated to DD name "SPIUDUMP".

System Action: SPICE will continue its abnormal termination.

Operator Response: Include the SPICE formatted dump in the problem documentation.

SPI0209I *ABEND* APPLICATION CALLED SPICE AFTER SPICE TERMINATION

Explanation: The application has issued a request to SPICE after SPICE has terminated. This situation should never arise, as SPICE automatic termination should occur only after the program has terminated.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0211W APPLICATION TIMEOUT - EXECUTION CONTINUES

Explanation: The application program has executed without issuing commit points for a period in excess of the SPICE application timeout interval. SPICE has been configured to allow execution of the program to continue.

System Action: SPICE will allow the program to continue its execution.

Programmer/Operator Response: Report the problem as an application program error.

SPI0212W APPLICATION TIMEOUT - TERMINATE PROGRAM ?**SPI0212A APPLICATION TIMEOUT - REPLY Y/N**

Explanation: The application program has executed without issuing commit points for a period in excess of the SPICE application timeout interval. The operator is being asked whether SPICE should terminate the program abnormally, or allow it to continue. The operator should reply "Y" to instruct SPICE to terminate the program, or "N" to allow it to continue.

System Action: The application program will continue to process whilst SPICE awaits the reply from the operator.

Programmer/Operator Response: Respond to the message, in accordance with operating instructions. Report the problem as an application program error.

SPI0213I APPLICATION TIMEOUT - EXECUTION WILL BE TERMINATED

Explanation: The application program has executed without issuing commit points for a period in excess of the SPICE application timeout interval. SPICE has been configured to terminate execution of the program abnormally.

System Action: SPICE will ABEND with user code 4092.

Programmer/Operator Response: Report the problem as an application program failure.

SPI0214I APPLICATION TIMEOUT - TERMINATION DEFERRED

Explanation: The application program has executed without issuing commit points for a period in excess of the SPICE application timeout interval. SPICE has been configured to terminate execution of the program abnormally. The host database management system, however, was executing when the timeout occurred, and could not be interrupted.

System Action: As soon as the database management system returns to SPICE, SPICE will ABEND the program with user code 4092. If the database management system does not return, SPICE will reissue the message, approximately every 5 minutes.

Programmer/Operator Response: If the program terminates with a user 4092 abend, report the problem as an application program failure. If not, follow the operating instructions for a looping or waiting database management system.

SPI0217I *ABEND* APPLICATION FRONT END PROCESSOR - APPLICATION PROGRAM NOT FOUND

SPICE DL/I Explanation: The SPICE application front-end interface was executed incorrectly. It was unable to locate an application program to execute.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: This problem is caused by the SPICE application front-end interface having been incorrectly link-edited with the target application program. Link-edit the program correctly, and restart the job.

SPI0220I SPICE ESTAE RECURSION

SPICE Explanation: The SPICE ESTAE exit is in a (probably infinite) loop.

System Action: SPICE will continue to process.

Programmer/Operator Response: Cancel the job, if necessary by forcing the partition to terminate. Refer the problem to your technical support team responsible for SPICE.

SPI0250I *ABEND* DATABASE REQUEST FAILURE DURING TERMINATION

SPICE Explanation: SPICE encountered an error against the restart database, during termination.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Examine the preceding message(s). If the cause is not due to SPICE, correct the problem and restart the job. Otherwise, refer the problem to your technical support team responsible for SPICE.

SPI0251I *ABEND* SPICE SAM REQUEST FAILURE DURING TERMINATION

Explanation: SPICE encountered a problem when attempting to close a SPICE SAM file, during termination.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Examine the preceding message(s). If the cause is not due to SPICE, correct the problem and restart the job. Otherwise, refer the problem to your technical support team responsible for SPICE.

SPI0260I *ABEND* SPICE SERVICES TESTING FACILITY - ABEND

Explanation: The application program has issued a SPICE services test request. The application JCL included DD name "*****DIE", where "*****" is the DD name prefix specified in the request.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: This problem should occur only in testing environments. To prevent its recurrence, remove the appropriate "*****DIE" DD statement from the JCL. The job may then be restarted.

SPI0261I *WARNING* SPICE SERVICES TESTING FACILITY - ERROR RAISED

Explanation: The application program has issued a SPICE services test request. The application JCL included DD name "*****ERR", where "*****" is the DD name prefix specified in the request.

SPICE SQL System Action: SPICE SQL will return an SQLCODE of "-681" and an SQLSTATE of "SR261" in the SQLCA. Control is returned to the application program.

SPICE DL/I System Action: SPICE DL/I will return a status code of "ZZ" in the IMS PCB. Control is returned to the application program.

SPICE Restart API System Action: SPICE will return an SRACODE of "-681", an SRASTATE of "SR261" and an SRASTAT of "ZZ" in the SRACA. Control is returned to the application program.

Programmer/Operator Response: This problem should occur only in testing environments. To prevent its recurrence, remove the appropriate "*****ERR" DD statement from the JCL. The job may then be restarted.

SPI0262I *LOOP* SPICE SERVICES TESTING FACILITY - PROGRAM IS LOOPING

Explanation: The application program has issued a SPICE services test request. The application JCL included DD name "*****SPN", where "*****" is the DD name prefix specified in the request.

System Action: SPICE will enter a permanent CPU loop.

Programmer/Operator Response: The program should be terminated by operator command.

This problem should occur only in testing environments. To prevent its recurrence, remove the appropriate "*****SPN" DD statement from the JCL. The job may then be restarted.

Messages SPI0300-SPI0399

SPI0301I COMMAND INVALID, INVALID CHARACTER IN COMMAND

Explanation: The command contained an invalid character.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0302I COMMAND INVALID, QUOTED TEXT STRING INCOMPLETE

Explanation: The command contained a text string, without a closing quote.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0303I COMMAND INVALID, COMMENT INCOMPLETE

Explanation: The command contained a comment, without a closing “*/”.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0305I COMMAND INVALID, MISSING ")”

Explanation: The command contained more opening than closing parentheses.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0306I COMMAND INVALID, KEYWORD CANNOT HAVE SUBLISTS, "kkkkkkkk”

Explanation: A parameter was specified for keyword, “kkkkkkkk”, when none is allowed.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0308I COMMAND INVALID, KEYWORD NOT FOUND, "kkkkkkkk”

Explanation: The keyword “kkkkkkkk” is not applicable to this command.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0309I *ABEND* SPICE PARSING SUBROUTINE FAILURE, NAME=name, RETURN CODE code

Explanation: SPICE parsing routine “name” has returned invalid return code “code”.

System Action: The SPICE utility program, SPIUTI00, will ABEND with user code 4091.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0310I COMMAND EXECUTED SUCCESSFULLY AT yy.ddd hh:mm:ss.t

Explanation: The command was executed, at the indicated time and date.

System Action: The next command is read from the input stream.

Programmer/Operator Response: None.

SPI0311I NO COMMAND FOUND

Explanation: No further commands were found in the input stream. This message normally occurs when end of file is reached.

System Action: The utility program terminates normally.

Programmer/Operator Response: None.

SPI0312I COMMAND EXECUTION FAILED AT yy.ddd hh:mm:ss.t

Explanation: Execution of the command was terminated at the indicated time and date. This message will be preceded by another, detailing the cause of the failure.

System Action: The next command is read from the input stream.

Programmer/Operator Response: Dependent on the cause of the error.

SPI0313I PROCESSING TERMINATED

Explanation: The SPICE utility program has terminated.

System Action: Execution of the utility terminates.

Programmer/Operator Response: None.

SPI0316I INTERNAL BUFFER OVERFLOW, COMMAND TOO LONG

Explanation: The command was too long for the utility to process.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it. If the problem persists, refer it to your technical support team responsible for SPICE.

SPI0317I COMMAND FAILURE - TOO MANY ")”

Explanation: The command contained more closing than open parentheses.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0318I COMMAND FAILURE - INVALID NUMERIC FIELD

Explanation: A numerical parameter of the command was not in numeric format.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0319I COMMAND FAILURE - NUMERIC FIELD TOO LONG

Explanation: A numeric parameter of the command was too long.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0320I COMMAND FAILURE - HEX FIELD TOO LONG

Explanation: A hexadecimal parameter of the command was too long.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0321I COMMAND FAILURE - INVALID HEX FIELD

Explanation: A hexadecimal parameter of the command contained invalid characters.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0322I COMMAND FAILURE - INVALID ITEM LENGTH

Explanation: A parameter in the command was longer than the permitted length.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0323I COMMAND FAILURE - VALUE OUTSIDE VALID RANGE

Explanation: A parameter in the command was not in the permitted range of values.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

Messages SPI0400-SPI0499

SPI0401I *ABEND* SYSIN INPUT FILE OPEN FAILURE

SPICE Explanation: The SPICE utility program SPIUTI00 was unable to open the command input file, DD name "SYSIN".

SPICE System Action: The SPICE utility program, SPIUTI00, will terminate with ABEND code 4091.

Programmer/Operator Response: Correct the job and restart.

SPI0402I *ABEND* SYSPRINT OUTPUT FILE OPEN FAILURE

SPICE Explanation: The SPICE utility program SPIUTI00 was unable to open the report output file, DD name "SYSPRINT".

SPICE System Action: The SPICE utility program, SPIUTI00, will terminate with ABEND code 4091.

Programmer/Operator Response: Correct the job and restart.

SPI0403I *ABEND* SPICE UTILITY SUBROUTINE FAILURE, NAME=name, RETURN CODE code

Explanation: Routine "name" of the SPICE utility program SPIUTI00 has returned invalid return code "code".

System Action: The SPICE utility program, SPIUTI00, will ABEND with user code 4091.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0404I COMMAND FAILURE - KEYWORD IS REPEATED, "kkkkkkkk"

Explanation: The keyword, "kkkkkkkk", was specified more than once.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0405I COMMAND FAILURE - VALUE LENGTH INVALID, KEYWORD "kkkkkkkk"

Explanation: The length of a parameter of the keyword "kkkkkkkk" was invalid.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0406I COMMAND FAILURE - KEYWORD CONTRADICTS PREVIOUS PARAMETER, "kkkkkkkk"

Explanation: The keyword "kkkkkkkk", and its complement, were both specified in the command.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0407I COMMAND FAILURE - PCB NOT FOUND, DBDNAME "ddddddd"

SPICE DL/I Explanation: The PSB the utility is run against does not contain a PCB for database "ddddddd" with the required processing options.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it, or, if the command is correct, correct the PSB and rerun the utility.

SPI0408I COMMAND FAILURE - SEGLEN CAN BE SPECIFIED ONLY FOR THE DEFAULT ENTRY

SPICE DL/I Explanation: Parameter "SEGLEN" was specified on an "INIT" command for a PSB.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0409I COMMAND FAILURE - DBDNAME MUST BE SPECIFIED

SPICE SQL Explanation: The command omitted the keyword "SQL".

SPICE DL/I Explanation: The command omitted the keyword "DBDNAME" and its value.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0410I COMMAND FAILURE - SEGLEN MUST BE SPECIFIED

SPICE DL/I Explanation: The "SEGLEN" parameter must be specified when issuing an "INIT" command for the "DEFAULTS" entry.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0411I COMMAND FAILURE - BAD DL/I STATUS CODE OF cc FROM ffff CALL

SPICE DL/I Explanation: A call to DL/I with a function code of "ffff" returned a status code of "cc".

System Action: Execution of the command is terminated.

Programmer/Operator Response: Examine the status code and, if the cause of the error can be determined, correct it. If not, refer the problem to your technical support team responsible for SPICE.

SPI0412I COMMAND FAILURE - PROGRAM/PSB IS NOT REGISTERED IN THE DATABASE

SPICE SQL Explanation: No entry could be found in the restart database for the requested program name.

SPICE DL/I Explanation: No entry could be found in the selected database for the requested PSB name.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0413I COMMAND FAILURE - PROGRAM/PSB ALREADY REGISTERED IN THE DATABASE

SPICE SQL Explanation: The "INIT" command was issued for a program name that was already registered in the restart database.

SPICE DL/I Explanation: The "INIT" command was issued for a PSB name that was already registered in the selected database.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0414I COMMAND FAILURE - JOB IS NOT REGISTERED IN THE DATABASE FOR THIS PROGRAM/PSB

SPICE SQL Explanation: No entry was found in the restart database for the requested jobname and program name.

SPICE DL/I Explanation: No entry was found in the database for the requested jobname, under the specified PSB name.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0415I COMMAND FAILURE - JOB IS ALREADY REGISTERED IN THE DATABASE FOR THIS PROGRAM/PSB

SPICESQL Explanation: An entry already exists in the restart database for the requested jobname and program name.

SPICEDL/I Explanation: An entry already exists in the database for the requested jobname, under the specified PSB name.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0416I COMMAND FAILURE - MSDB RESTART DATABASE IS FULL, ENTRY COULD NOT BE INSERTED

SPICEDL/I Explanation: There was not sufficient space in the selected MSDB database for the entry to be inserted.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Either delete some entries from the database, or increase the number of segments, before reissuing the command.

SPI0417I COMMAND FAILURE - OPTIONS SELECTED INVALID FOR "CHANGE ... JOB"

SPICESQL Explanation: An option specified in the command relates to program entries, and is invalid for job entries.

SPICEDL/I Explanation: An option specified in the command relates to PSB entries, and is invalid for job entries.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0418I COMMAND FAILURE - OPTIONS SELECTED WERE INVALID FOR PROGRAM/PSB ENTRY CHANGE

SPICESQL Explanation: An option specified in the command relates to job entries, and is invalid for program entries.

SPICEDL/I Explanation: An option specified in the command relates to job entries, and is invalid for PSB entries.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0419I COMMAND FAILURE - PROGRAM/PSB MUST BE SUPPLIED

SPICESQL Explanation: The command did not specify a program name.

SPICEDL/I Explanation: The command did not specify a PSB name.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0420I PROGRAM/PSB "pppppppp" ALREADY SUSPENDED

SPICESQL Explanation: The "CHANGE ... SUSPEND" command was issued against program name "pppppppp", which was already suspended.

SPICEDL/I Explanation: The "CHANGE ... SUSPEND" command was issued against PSB name "pppppppp", which was already suspended.

System Action: Execution of the command continues.

Programmer/Operator Response: None.

SPI0421I PROGRAM/PSB "pppppppp" NOT SUSPENDED

SPICESQL Explanation: The "CHANGE ... RELEASE" command was issued against program name "pppppppp", which was not suspended.

SPICEDL/I Explanation: The "CHANGE ... RELEASE" command was issued against PSB name "pppppppp", which was not suspended.

System Action: Execution of the command continues.

Programmer/Operator Response: None.

SPI0422I PROGRAM/PSB "pppppppp" JOB "jjjjjjjj" ALREADY SUSPENDED

SPICESQL Explanation: The "CHANGE ... SUSPEND" command was issued against job "jjjjjjjj" of program name "pppppppp", which was already suspended.

SPICEDL/I Explanation: The "CHANGE ... SUSPEND" command was issued against job "jjjjjjjj" of PSB name "pppppppp", which was already suspended.

System Action: Execution of the command continues.

Programmer/Operator Response: None.

SPI0423I PROGRAM/PSB "pppppppp" JOB "jjjjjjj" NOT SUSPENDED

SPICE SQL Explanation: The "CHANGE ... RELEASE" command was issued against job "jjjjjjj" of program name "pppppppp", which was not suspended.

SPICE DL/I Explanation: The "CHANGE ... RELEASE" command was issued against job "jjjjjjj" of PSB name "pppppppp", which was not suspended.

System Action: Execution of the command continues.

Programmer/Operator Response: None.

SPI0424I PROGRAM/PSB "pppppppp" JOB "jjjjjjj" IS NOT ACTIVE

SPICE SQL Explanation: The "CHANGE ... RERUN" command was issued against job "jjjjjjj" of program name "pppppppp", which did not have an active restart point.

SPICE DL/I Explanation: The "CHANGE ... RERUN" command was issued against job "jjjjjjj" of PSB name "pppppppp", which did not have an active restart point.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0425I COMMAND FAILURE - PROGRAM/PSB "pppppppp" JOB "jjjjjjj" HAS COMPLETED

SPICE SQL Explanation: The "CHANGE ... RESTART" command was issued against job "jjjjjjj" of program name "pppppppp", which had completed its execution; the job entry "STOP" time was later than that of the last commit point.

SPICE DL/I Explanation: The "CHANGE ... RESTART" command was issued against job "jjjjjjj" of PSB name "pppppppp", which had completed its execution; the job entry "STOP" time was later than that of the last commit point.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0426I COMMAND FAILURE - SPECIFIC JOBNAM WITH PROGRAM/PSB(ALL) IS INVALID

SPICE SQL Explanation: A "PROGRAM" parameter of "ALL" was specified with a particular jobname. This combination of operands is not supported.

SPICE DL/I Explanation: A "PSBNAME" parameter of "ALL" was specified with a particular jobname. This combination of operands is not supported.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0427I COMMAND FAILURE - JOBNAM MUST BE SPECIFIC WITH RERUN OR RESTART

Explanation: The "CHANGE ... RERUN/RESTART" command did not specify which job's entry was to be changed.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0428I COMMAND FAILURE - INVALID USE OF "ALL" OPTION

Explanation: A value of "ALL" has been specified for a keyword parameter of the command. The command supports only specific values.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0429I COMMAND FAILURE - JOBS EXIST FOR THE PROGRAM/PSB BEING DELETED

SPICE SQL Explanation: An attempt was made to delete a program entry, when it had dependent job entries. The "PURGE" operand was not specified.

SPICE DL/I Explanation: An attempt was made to delete a PSB entry, when it had dependent job entries. The "PURGE" operand was not specified.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0430I COMMAND FAILURE - ACTIVE RESTARTS EXIST FOR JOB "jjjjjjj"

Explanation: An attempt was made to delete the entry for job "jjjjjjj", while it still had an active commit point. The "PURGE" operand was not specified.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0431I COMMAND FAILURE - MSDB CORRUPT, PSB "pppppppp", JOB "jjjjjjj"

SPICE DL/I Explanation: The entry in the selected MSDB database, for PSB name "pppppppp" and jobname "jjjjjjj", is corrupt.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0432I COMMAND FAILURE - DATABASE SEGMENT TYPE INVALID

Explanation: An entry in the selected database was found to be corrupt.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0433I *ABEND* SPICE UTILITY FAILURE, STATUS CODE OF "ss" RETURNED BY "TERM" CALL

SPICE DL/I Explanation: A DL/I status code of "ss" was returned from a "TERM" call to SPICE.

System Action: The SPICE utility program, SPIUTI00, will ABEND with user code 4091.

Programmer/Operator Response: Examine the status code and, if the cause is apparent, correct it and rerun the utility. If not, refer the problem to your technical support team responsible for SPICE.

SPI0434I COMMAND FAILURE - ATTEMPT TO DELETE THE DEFAULT PROGRAM/PSB SEGMENT

SPICE SQL Explanation: A "DELETE ... PROGRAM(*DEFAULT)" command was issued. The SPICE utility program will not allow the default entry to be deleted.

SPICE DL/I Explanation: A "DELETE ... PSBNAME(*DEFAULT)" command was issued. The SPICE utility program will not allow the default PSB to be deleted.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0435I *ABEND* SPICE UTILITY FAILURE, STATUS CODE OF "ss" RETURNED BY "ffff" IMS DC CALL

SPICE DL/I Explanation: An IMS status code of "ss" was returned from a "ffff" call to the I/O or alternate PCB.

System Action: The SPICE utility program, SPIUTI00, will ABEND with user code 4091.

Programmer/Operator Response: Examine the status and function codes and, if the cause is apparent, correct it and rerun the utility. If not, refer the problem to your technical support team responsible for SPICE.

SPI0436I COMMAND FAILURE - ENTRY NOT FOUND

SPICE DL/I Explanation: No MSDB segment with the requested sequence number is present in the database.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0437I COMMAND FAILURE - ENTRY CANNOT BE DELETED AS IT IS IN USE

SPICE DL/I Explanation: The requested MSDB segment is pointed to by another segment in the database, and therefore cannot be deleted.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0438I COMMAND FAILURE - MSDBINDEX OPTION VALID AGAINST MSDB DATABASE ONLY

SPICE DL/I Explanation: The requested database was not an MSDB, and cannot be accessed by MSDB sequence number.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0450I COMMAND FAILURE - USER NOT ALLOWED

Explanation: The user is not authorised to issue the requested command.

System Action: Execution of the command is terminated.

Programmer/Operator Response: If the command is in error, correct it and reissue it. If the request is reasonable, consult the security administrator.

SPI0451I COMMAND FAILURE - ACCESS DENIED

Explanation: The user is not authorised to use the SPICE operator facilities.

System Action: Execution of the command is terminated.

Programmer/Operator Response: If access to the SPICE operator facilities is required, consult the security administrator.

SPI0452I COMMAND FAILURE - JOB NAME MUST BE SPECIFIED

Explanation: The command did not specify a job name.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0453I COMMAND FAILURE - INFILE AND OUTFILE MUST BE SPECIFIED

Explanation: The command did not specify both INFILE and OUTFILE parameters.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

**SPI0454I COMMAND FAILURE - UTILITY RUNNING UNDER SAME JOBNAME AS
COMMAND TARGET**

Explanation: The job that the SPICE utility programming is executing in has the same job name as that specified in the command.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Change the jobname of the utility job and re-submit it.

SPI0455I COMMAND FAILURE - NO RESTART EXISTS FOR THE SPECIFIED JOB

Explanation: The SPICE restart database does not contain an entry for the specified job that is awaiting restart.

System Action: Execution of the command is terminated.

Programmer/Operator Response: If the database name, PSB name and job name are correct, then the program completed successfully. If so, the REPRO command is not appropriate. Otherwise, correct the command and reissue it.

SPI0456I COMMAND FAILURE - FILE NOT FOUND IN RESTART DATA

Explanation: No entry was found in the restart data of the job for a SPICE SAM output file with DDname as specified in the INDD keyword parameter of the command. Possible causes are:

- The input DDname is spelt incorrectly.
- The restart checkpoint precedes the opening of the file. The checkpoint will not contain an entry for the file.

The existence of restart data for the file may be verified by obtaining a dump report of the contents of the job entry, and locating the SSPD entry for the file name. The appropriate *SPICE Reference Manual* details how this report is obtained.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the command and reissue it.

SPI0457I COMMAND FAILURE - ffff FAILURE FOR FILE dddddddd

Explanation: SPICE experienced a failure when processing an “ffff” request against the SPICE SAM file “ddddddd”.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Examine the preceding messages, and take appropriate action. Reissue the command.

SPI0458I SUBSYSTEM FAILURE - INVALID IDENTIFY RETURN CODE

Explanation: A z/OS IDENTIFY request returned an invalid code.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE. Examine the preceding z/OS messages on the z/OS SYSLOG, and take appropriate action.

SPI0459I COMMAND FAILURE - JOB ENTRY ALTERED DURING COMMAND EXECUTION

Explanation: SPICE detected a change to the reposition address for a SPICE SAM file in the SPICE Restart Database whilst processing a ‘REPRO’ request.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Ensure that no other process is active before reissuing the command.

SPI0460I COMMAND FAILURE - RESTART INFILE POSITION NOT FOUND

Explanation: Whilst processing a 'REPRO' request, SPICE was unable to find the SPICE SAM input file's restart position, as recorded in the requested job's entry in the SPICE Restart Database.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Possible causes are:

- The input DDname and file do not correspond to the requested job and program name.
- The input file is a copy of the original, created in a way that did not preserve the original block structure. 'REPRO' can only recover from either the original file or an identical copy.

SPI0461I COMMAND FAILURE - INFILE AND OUTFILE MUST DIFFER

Explanation: The 'REPRO' command input and output files must be different.

System Action: Execution of the command is terminated.

Programmer/Operator Response: Correct the job and re-submit.

Messages SPI0500-SPI0599

SPI0502I SQL REQUEST FAILURE: LENGTH VALUE INVALID

SPICESQL Explanation: One of the host variables in the SPICE SQL request had an invalid length value. The requested operation could not be processed.

System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR502" in the request SQLCA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0503I SQL REQUEST FAILURE: DUPLICATE VALUE

SPICESQL Explanation: The SPICE SQL request specified one of the SPICE host variables more than once. The requested operation could not be processed.

System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR503" in the request SQLCA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0504I SQL REQUEST FAILURE: OMITTED VALUE

SPICESQL Explanation: The SPICE SQL request omitted a required SPICE host variable value. The requested operation could not be processed.

System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR504" in the request SQLCA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0505I SQL REQUEST FAILURE: INVALID COMBINATION OF VALUES

SPICESQL Explanation: The SPICE SQL request specified an invalid combination of SPICE host variable values. The requested operation could not be processed.

A " !DDNAME!=..." value may have been specified on a "SPICE_PAM" request, for instance.

System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR505" in the request SQLCA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0506I SQL REQUEST FAILURE: INVALID ACTION VALUE

SPICESQL Explanation: The SPICE SQL request included an invalid SPICE ACTION host variable value. The requested operation could not be processed.

The only valid values are " !ACTION!=OPEN_IN", " !ACTION!=OPEN_OUT", " !ACTION!=CLOSE" and " !ACTION!=TEST".

System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR506" in the request SQLCA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0507I SQL REQUEST FAILURE: INVALID STATUS VALUE

SPICESQL Explanation: The SPICE SQL request included an invalid SPICE STATUS host variable value. The requested operation could not be processed.

The only valid values are " !STATUS!=STATIC" and " !STATUS!=ACTIVE".

System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of "SR507" in the request SQLCA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0509I SQL REQUEST FAILURE: AREA ALREADY STATIC

SPICE SQL Explanation: The SPICE SQL request requested a change in program area status to “static” when the area was already “static”. The requested operation could not be processed.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of “SR509” in the request SQLCA.

SPICE Restart API Explanation: The SPICE Restart API requested that the contents of a program area be frozen, when the program area was already frozen.

SPICE Restart API System Action: SPICE will return an SRA CODE of -681, an SRA STATE of “SR509” and an SRA STAT of “RX” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0510I [*ABEND*] SPICE UNABLE TO USE RESTART DATABASE, SQLCODE=s999

SPICE SQL Explanation: An SQL statement from SPICE to the restart database returned SQLCODE “s999”.

SPICE DL/I System Action: If the message includes the text “*ABEND*”, SPICE will ABEND with user code 4090. Otherwise, control will be returned to the application program, with a status code of “BC” returned in the request PCB.

SPICE SQL System Action: If the message includes the text “*ABEND*”, SPICE will ABEND with user code 4090. Otherwise, control will be returned to the application program, with the diagnostic information returned in the request SQLCA.

SPICE Restart API System Action: If the message includes the text “*ABEND*”, SPICE will ABEND with user code 4090. Otherwise, control will be returned to the application program, with the diagnostic information stored in SRACODE, SRA STATE and SRAERRM and an SRA STAT of “BC” returned in the request SQLCA.

Programmer/Operator Response: Examine the reported SQLCODE. If the cause of the problem is evident, correct it and restart the job. If not, refer it to your technical support team responsible for SPICE.

SPI0511I SQL REQUEST FAILURE: AREA ALREADY SELECTED

SPICE Explanation: The SPICE request attempted to declare a program area that had already been declared. The requested operation could not be processed.

SPICE SQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of “SR511” in the request SQLCA.

SPICE Restart API System Action: SPICE will return an SRA CODE of “-681”, an SRA STATE of “SR511” and an SRA STAT of “RX” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0512W SQL REQUEST ANOMALY: INVALID CATEGORY VALUE

SPICE SQL Explanation: The SPICE SQL request specified an 18 character host variable prefixed with “!SPICE!”, but not one of the valid category values. The statement was rejected as a SPICE SQL request.

This is usually a programming error.

System Action: SPICE will pass the statement on to DB2 for execution.

Programmer/Operator Response: If investigation of the program indicates a SPICE SQL programming error, correct it and restart the job. This message can be issued for non-SPICE SQL statements. If the number of these messages from a program becomes a problem, the message can be suppressed. See topic *SPICE Application Program Diagnostics* in the *SPICE SQL Product Reference Manual* for details.

SPI0513I SQL REQUEST FAILURE: AREA/RECORD NOT CONTIGUOUS

SPICE SQL Explanation: The SPICE SQL request specified a set of host variables for a SPICE PAM program area or SPICE SAM record I/O area that did not collate into a single area of storage. The requested operation could not be processed.

This problem can be created when COBOL programs specify a host structure containing “FILLER” variables. The DB2 precompiler omits “FILLER” variables from the list of variables that are passed to SPICE. If this is the case, changing their names to other than “FILLER” will correct the problem.

System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of “SR513” in the request SQLCA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0514W SQL REQUEST ANOMALY: SPICE PARAMETER MAY BE INCORRECT

SPICE SQL Explanation: The SPICE SQL request included a parameter beginning with the character “!” that was not a valid SPICE SQL keyword. The statement was rejected as a SPICE SQL request.

This message is typically caused by an error in the coding of the value of a SPICE SQL parameter, “!FILEDD!=FILE” instead of “!DDNAME!=FILE” for instance.

System Action: SPICE will pass the statement on to DB2 for execution.

Programmer/Operator Response: If investigation of the program indicates a SPICE SQL programming error, correct it and restart the job. This message can be issued for valid SPICE SQL statements whose data host variables happen to have “!” as their first character. If the number of these messages from a program become a problem, the message can be suppressed. See topic *SPICE Application Program Diagnostics* in the *SPICE SQL Product Reference Manual* for details.

SPI0516I SQL REQUEST FAILURE: INVALID RECLLEN PARAMETER

SPICESQL Explanation: The SPICE SQL SAM request specified an invalid value assigned to the RECLLEN column. The requested operation could not be processed.

The RECLLEN parameter must take the value “!RECLLEN!=<number>”, where “<number>” consists only of the digits “0” to “9”.

System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of “SR516” in the request SQLCA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0517I SQL REQUEST FAILURE: INVALID FILE RECORD LENGTH

SPICESQL Explanation: The record length of a SPICE SAM file did not comply with the record length as defined in the SPICE SAM cursor declaration or file open request. The requested operation could not be processed.

This can be caused by assigning the wrong file to the program. It can also be caused by incorrect specification of the RECLLEN parameter.

SPICESQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of “SR517” in the request SQLCA.

SPICE Restart API Explanation: The record length of a SPICE SAM file did not comply with the record length as defined in the open request. The requested operation could not be processed. This can be caused by assigning the wrong file to the program. It can also be caused by incorrect specification of the record length parameter.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRATYPE of “SR517” and an SRASAT of “AI” in the request SRACA.

Programmer/Operator Response: Correct the program or file and restart the job.

SPI0518I TEST REQUEST FAILURE - INVALID DDNAME PREFIX

Explanation: A SPICE services test facility request specified a DDname prefix of less than the required 5 characters.

SPICESQL System Action: SPICE will return an SQLCODE of -681 and an SQLSTATE of “SR518” in the request SQLCA.

SPICE DL/I System Action: SPICE will return a status code of “AI” in the request PCB.

SPICE Restart API System Action: SPICE will return an SRACODE of -681, an SRATYPE of “SR518” and an SRASAT of “AI” in the SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0520I CAF CONNECT FAILURE: RETURN CODE=xxxx

Explanation: SPICE received invalid return code “xxxx” from a DB2 CAF CONNECT request.

System Action: SPICE will ABEND with user code 4090.

Operator Response: Consult DB2 documentation for the meaning of the error codes documented in the message, correct the problem accordingly, and restart the SPICE Operator Subsystem

SPI0521I CAF OPEN FAILURE: RETURN CODE=xxxx

Explanation: SPICE received invalid return code “xxxx” from a DB2 CAF OPEN request.

System Action: SPICE will ABEND with user code 4090.

Operator Response: Consult DB2 documentation for the meaning of the error codes documented in the message, correct the problem accordingly, and restart the SPICE Operator Subsystem

SPI0522I CAF CLOSE FAILURE: RETURN CODE=xxxx

Explanation: SPICE received invalid return code “xxxx” from a DB2 CAF CLOSE request.

System Action: SPICE will ABEND with user code 4090.

Operator Response: Consult DB2 documentation for the meaning of the error codes documented in the message, correct the problem accordingly, and restart the SPICE Operator Subsystem

SPI0523I CAF DISCONNECT FAILURE: RETURN CODE=xxxx

Explanation: SPICE received invalid return code "xxxx" from a DB2 CAF DISCONNECT request.

System Action: SPICE will ABEND with user code 4090.

Operator Response: Consult DB2 documentation for the meaning of the error codes documented in the message, correct the problem accordingly, and restart the SPICE Operator Subsystem

SPI0524I INVALID CAF PARAMETER LIST

Explanation: Internal SPICE failure.

System Action: SPICE will ABEND with user code 4090.

Operator Response: Refer the problem to your technical support team responsible for SPICE.

Messages SPI0600-SPI0699

SPI0600I ISPF SUBSYSTEM FAILURE - ISPF INACTIVE

Explanation: An attempt was made to execute the SPICE operator subsystem outside of ISPF.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Enter ISPF before starting the SPICE operator subsystem.

SPI0601I ISPF SUBSYSTEM FAILURE - ATTACH FAILURE

Explanation: The z/OS ATTACH of the SPICE utility program by the SPICE operator subsystem failed.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE. Examine the preceding z/OS messages on the z/OS SYSLOG, and take appropriate action.

SPI0602I ISPF SUBSYSTEM FAILURE - ISPEXEC FAILURE

Explanation: An invalid return code was returned by ISPEXEC.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE. Examine the displayed message(s), and take any appropriate action.

SPI0603I ISPF SUBSYSTEM FAILURE - INVALID REQUEST FROM SUBSYSTEM

Explanation: An invalid request was made to the SPICE operator subsystem.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE. Examine the displayed message(s), and take any appropriate action.

SPI0604I UTILITY FAILURE - INVALID REQUEST TO ISPF SUB-SYSTEM

Explanation: This message indicates a serious failure of the SPICE operator subsystem.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0605I ISPF SUBSYSTEM FAILURE - UTILITY ABEND

Explanation: This message indicates a serious failure of the SPICE operator subsystem.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0606I ISPF SUBSYSTEM FAILURE - CPPL NOT FOUND

Explanation: This message indicates a serious failure of the SPICE operator subsystem.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0607I ISPF SUBSYSTEM FAILURE - STACK FAILURE

Explanation: This message indicates a serious failure of the SPICE operator subsystem.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPI0611I ISPF SUBSYSTEM FAILURE - INVALID LENGTH

Explanation: An invalid parameter string was passed to the SPICE operator subsystem.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE. It is likely that the DB2 or IMS system is defined in the SPICE operator subsystem system table incorrectly. Examine the displayed message(s), and take any appropriate action.

SPI0612I ISPF SUBSYSTEM FAILURE - UTILITY INACTIVE

Explanation: The SPICE operator subsystem attempted to pass a message to the SPICE utility program when it was inactive.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: It will probably be necessary to log off from TSO. Refer the problem to your technical support team responsible for SPICE.

SPI0613I ISPF SUBSYSTEM FAILURE - DSN SUBTASK OMITTED

Explanation: The parameter string passed to the SPICE operator subsystem is invalid.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE. It is likely that the DB2 or IMS system is defined in the SPICE operator subsystem system table incorrectly. Examine the displayed message(s), and take any appropriate action.

SPI0614I ISPF SUBSYSTEM FAILURE - INVALID DSN COMMAND LENGTH

Explanation: The parameter string passed to the SPICE operator subsystem is invalid.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE. It is likely that the DB2 or IMS system is defined in the SPICE operator subsystem system table incorrectly. Examine the displayed message(s), and take any appropriate action.

SPI0615I ISPF SUBSYSTEM FAILURE - INVALID DSN SUB-COMMAND LENGTH

Explanation: The parameter string passed to the SPICE operator subsystem is invalid.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: Refer the problem to your technical support team responsible for SPICE. It is likely that the DB2 or IMS system is defined in the SPICE operator subsystem system table incorrectly. Examine the displayed message(s), and take any appropriate action.

SPI0616I ISPF SUBSYSTEM FAILURE - UTILITY ALREADY ACTIVE

Explanation: An attempt was made to initiate the SPICE utility subsystem whilst it was already active.

System Action: Execution of the operator subsystem is terminated.

Programmer/Operator Response: It will probably be necessary to log off from TSO. Refer the problem to your technical support team responsible for SPICE. Examine the displayed message(s), and take any appropriate action.

Messages SPI0700-SPI0799

SPI0701I *ABEND* RESTART API FAILURE: INCOMPLETE PARAMETER LIST

SPICE Restart API Explanation: The parameter list specified in a call to the SPICE restart API had less than 2 items. The requested operation could not be processed.

System Action: SPICE will ABEND with a user code of 4090.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0702I *ABEND* RESTART API FAILURE: INVALID SRACA CONTENTS

SPICE Restart API Explanation: The SRACA supplied in the parameter list specified in a call to the SPICE restart API was invalid. Either the identification string, field SRAID value "SRACA", or the length, field SRALEN, was incorrect. The requested operation could not be processed.

System Action: SPICE will ABEND with user code 4090.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0703I RESTART API FAILURE: INVALID REQUEST CODE

SPICE Restart API Explanation: The request code supplied in the parameter list specified in a call to the SPICE restart API was not recognised. The requested operation could not be processed.

System Action: SPICE will return an SRACODE of “-681”, an SRASTATE of “SR703”, and an SRASTAT of “AD” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0704I RESTART API FAILURE: PROGRAM AREA NAME OMITTED

SPICE Restart API Explanation: No program area name was specified in the parameter list specified in a program area management call to the SPICE restart API. The requested operation could not be processed.

System Action: SPICE will return an SRACODE of “-681”, an SRASTATE of “SR704”, and an SRASTAT of “AB” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0705I RESTART API FAILURE: PARAMETERS OMITTED

SPICE Restart API Explanation: Parameter(s) were missing from the parameter list specified in a call to the SPICE restart API. The requested operation could not be processed.

System Action: SPICE will return an SRACODE of “-681”, an SRASTATE of “SR705”, and an SRASTAT of “AH” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0706I RESTART API FAILURE: EXCESSIVE PARAMETERS

SPICE Restart API Explanation: Too many parameters were supplied in the parameter list specified in a call to the SPICE restart API. The requested operation could not be processed.

System Action: SPICE will return an SRACODE of “-681”, an SRASTATE of “SR706”, and an SRASTAT of “AJ” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0707I RESTART API FAILURE: FILE DD NAME OMITTED

SPICE Restart API Explanation: No file DD name was supplied in the parameter list specified in a SPICE file management call to the SPICE restart API. The requested operation could not be processed.

System Action: SPICE will return an SRACODE of “-681”, an SRASTATE of “SR707”, and an SRASTAT of “AB” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0708I RESTART API FAILURE: INVALID FILE OPEN MODE

SPICE Restart API Explanation: The parameter, supplied in the parameter list specified in a file open call to the SPICE restart API, that indicated whether the file was being opened for input or output, was not recognised. The parameter should take the value “INPUT” or “OUTPUT”. The requested operation could not be processed.

System Action: SPICE will return an SRACODE of “-681”, an SRASTATE of “SR708”, and an SRASTAT of “AJ” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0709I RESTART API FAILURE: COMMIT NOT SUPPORTED

SPICE Restart API Explanation: The program has issued a commit request to the SPICE restart API, but there was no restart database available. The requested operation could not be processed.

System Action: SPICE does not issue a commit to the database management system. SPICE will return an SRACODE of “-681”, an SRASTATE of “SR709”, and an SRASTAT of “AL” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0710I RESTART API FAILURE: ROLLBACK NOT SUPPORTED

SPICE Restart API Explanation: The program has issued a rollback request to the SPICE restart API, but there was no restart database available. The requested operation could not be processed.

System Action: SPICE does not issue a rollback to the database management system. SPICE will return an SRACODE of “-681”, an SRASTATE of “SR710”, and an SRASTAT of “AL” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

SPI0711I RESTART API FAILURE: INVALID RANGE SPECIFIED

SPICE Restart API Explanation: The address range, supplied in the parameter list specified in a call to the SPICE restart API, was invalid. Either the second address in the range preceded the first, or the second did not address a valid range terminator. The requested operation could not be processed.

System Action: SPICE will return an SRACODE of “-681”, an SRA STATE of “SR711”, and an SRA STAT of “AJ” in the request SRACA.

Programmer/Operator Response: Correct the problem and restart the job.

Chapter 3. SPICE SQL™ SQLCA and SRACA Codes

Introduction

When the application program issues SPICE requests to SPICE SQL using SQL statements, SPICE SQL returns status information in the SQL communication area, the SQLCA. SPICE SQL always returns values in the SQLCODE and SQLSTATE fields. The values conform to those returned by DB2, in similar circumstances. Where appropriate SPICE will return warn codes in fields SQLWARN0-7 and/or descriptive tokens in field SQLERRM. In some situations SPICE SQL also issues a message.

When the application program issues SPICE requests to the SPICE Restart API, SPICE returns status information in the SPICE restart API communication area, the SRACA. SPICE returns values in the SRACODE, the SRASTATE, the SRAERRM and SRASTAT fields. The SRACODE, SRASTATE and SRAERRM fields conform to values returned by DB2 in fields SQLCODE, SQLSTATE and SQLERRM of the SQLCA. The SRASTAT field conforms to values returned by IMS in the status code field of the IMS PCB. In some situations SPICE SQL also issues a message.

The ERRM tokens are documented in their expanded form, as would be returned by a call to the DB2 module DSNTIAR.

For each unique combination of CODE, STATE and ERRM values issued by SPICE the following information is provided:

Warn Codes: Which, if any, SQLWARN fields are set.

Explanation: What the code and message means; why it occurred; what caused it.

System Action: What SPICE will do as a result of the condition.

Programmer and/or Operator Response: What the programmer and/or operator should do when the condition occurs.

SPICE CODE, STATE & ERRM Values

CODE: 000
STATE: 00000
ERRM:

Warn Codes: All blank.

Explanation: The requested processing was successfully performed.

System Action: Control is returned to the application program.

Programmer Response: None.

CODE: 000
STATE: 01501
ERRM: INPUT RECORD TRUNCATED

Warn Codes: SQLWARN0 and SQLWARN1 set to "W".

Explanation: For a SPICE SAM file record input request, the length of the specified host variable(s) is less than the length of the record in the requested file. The input record is truncated. The requested processing was successfully performed.

This could be caused by assigning the wrong file to the program. It could also be caused by incorrect specification of the record I/O area structure.

System Action: Control is returned to the application program.

Programmer Response: Ensure that both the input file and the I/O area it is being read into are compatible.

CODE: 000
STATE: 01501
ERRM: PROGRAM AREA TRUNCATED
Warn Codes: SQLWARN0 and SQLWARN1 set to “W”.
Explanation: For a SPICE PAM program area declaration, the length of the specified program area is less than the length of the area in the restart database. The program area is truncated. The requested processing was successfully performed.
System Action: Control is returned to the application program.
Programmer Response: Ensure that both the input file and the I/O area it is being read into are compatible.

CODE: +100
STATE: 02000
ERRM:
Warn Codes: All blank.
SPICE SAM Input Request Explanation: This indicates end of file.
SPICE Program Area Declaration Explanation: This indicates that no restart data exists for the specified identifier in the SPICE restart database.
Other SPICE Program Area Request Explanation: This indicates that a request was issued against a program area that had not been declared.
SQL Commit Request Explanation: This indicates that the request was suppressed, i.e. no commit point occurred.
System Action: Control is returned to the application program.
Programmer Response: None.

CODE: -302
STATE: SR031
ERRM: OUTPUT RECORD TRUNCATION
Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.
Explanation: For a SPICE SAM file record output request, The length of the specified host variable(s) exceeds the maximum record length of the requested file. The data is truncated to the maximum record length.
This can be caused by assigning the wrong file to the program. It can also be caused by incorrect specification of the record I/O area structure.
System Action: Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR002
ERRM: DDNAME NOT FOUND
Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.
Explanation: The program issued a SPICE SAM open request when no file was allocated to the specified DD name.
System Action: This code is accompanied by message SPI0002I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR005
ERRM: CHANGE OF USE FOLLOWING RESTART
Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.
Explanation: An attempt was made to open a SPICE SAM file for input, following a restart, when the file was previously open for output, or vice-versa.
System Action: This code is accompanied by message SPI0005I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR009
ERRM: FILE ALREADY OPEN
Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.
Explanation: An attempt was made to open a SPICE SAM file, when the file was already open.
System Action: Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR026

ERRM: INVALID PROCESSING OPTION

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: An input request was made against an output file, or vice-versa. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0026I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR028

ERRM: FILE NOT OPEN

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: A request was made against a SPICE SAM file that was not open, or could not be opened. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0028I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR030

ERRM: OPEN FAILURE

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: The "OPEN" request failed. "OPEN" requests can fail for one of the following reasons:

- The file was already open
- The operating system "OPEN" request failed

The requested operation could not be processed.

This can be caused by re-opening a SPICE SQL sequential file cursor following a commit point. SPICE SQL file cursors remain open following commit points.

System Action: For operating system "OPEN" failures and invalid DCBs SPICE issues a "SPI0030" or "SPI0035" message, respectively. Control is returned to the application program.

Programmer Response: Correct the program, or SPICE SAM file, and restart the job.

CODE: -681
STATE: SR032

ERRM: INVALID INPUT RECORD LENGTH

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: For a SPICE SAM file record input request, the length of the specified host variable(s) exceeds the length of the record in the requested file. The requested operation could not be processed.

This can be caused by assigning the wrong file to the program. It can also be caused by incorrect specification of the record I/O area structure.

System Action: This code is accompanied by message SPI0032I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR033

ERRM: INVALID FILE ACCESS METHOD

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: The "OPEN" request failed. The SPICE SAM file is of a type not supported by SPICE. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0033I. Control is returned to the application program.

Programmer Response: Copy the file to a supported file type and restart the job.

CODE: -681
STATE: SR035

ERRM: INVALID JFCB

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: The "OPEN" request failed. A SPICE SAM statement has been issued against a file whose type is not supported by SPICE SAM, e.g. ISAM.

System Action: This code is accompanied by message SPI0035I. SPICE issues a "SPI0035" message. Control is returned to the application program.

Programmer Response: Copy the file to a supported file type and restart the job.

CODE: -681
STATE: SR037
ERRM: BSAM DCB ABEND

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: An ABEND occurred during BSAM processing to a SPICE SAM file. The requested operation could not be processed.

Possible causes of this message are:

- During restart, when a file has been copied incorrectly before restarting the program. To copy SPICE SAM files, after abend B37 for instance, the procedure detailed in *SPICE SAM Dataset Recovery/Restart* in the appropriate *SPICE Product Reference Manual* must be followed.
- Physical failure of the dataset.

System Action: This code is accompanied by message SPI0037I. SPICE issues a “SPI0035” message. Control is returned to the application program.

Programmer Response: Correct the program, or SPICE SAM file, and restart the job.

CODE: -681
STATE: SR038
ERRM: BSAM I/O ERROR

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: BSAM encountered an I/O error when processing the request. The requested operation could not be processed.

Possible causes of this message are:

- During restart, when a file has been copied incorrectly before restarting the program. To copy SPICE SAM files, after abend B37 for instance, the procedure detailed in *SPICE SAM Dataset Recovery/Restart* in the appropriate *SPICE Product Reference Manual* must be followed.
- Physical failure of the dataset.

System Action: This code is accompanied by message SPI0038I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR045
ERRM: BSAM DCB ABEND IN OPEN

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: An ABEND occurred during BSAM OPEN processing for a SPICE SAM file. The requested operation could not be processed.

Possible causes of this message are:

- Invalid file DCB specification

System Action: This code is accompanied by message SPI0035I. Control is returned to the application program.

Programmer Response: Correct the program, or SPICE SAM file, and restart the job.

CODE: -681
STATE: SR050
ERRM: TOO FEW BUFFERS FOR REPOSITION

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: Reposition of a SPICE SAM file, typically performed during restart, requires more buffers than are defined.

System Action: This code is accompanied by message SPI0050I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR261
ERRM: TEST FACILITY: ERROR

Warn Codes: All blank.

Explanation: The application program has issued a SPICE services test request. The application JCL included DD name “xxxxxERR”, where “xxxxx” is the DDname prefix specified in the request.

System Action: This code is accompanied by message SPI0261I. Control is returned to the application program.

Programmer/Operator Response: This problem should occur only in testing environments. To prevent its recurrence, remove DD name “xxxxxERR” from the JCL. The job may then be restarted.

CODE: -681
STATE: SR502
ERRM: INVALID VALUE LENGTH

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: One of the host variables in the SPICE SQL request had an invalid length value. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0502I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR503
ERRM: DUPLICATE VALUE

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE SQL request specified one of the SPICE host variable values more than once. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0503I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR504
ERRM: OMITTED VALUE

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE SQL request omitted a required SPICE host variable value. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0504I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR505
ERRM: INVALID VALUE COMBINATION

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE SQL request specified an invalid combination of SPICE host variable values. The requested operation could not be processed.

A “!DDNAME!=...” value may have been specified on a “SPICE_PAM” request, for instance.

System Action: This code is accompanied by message SPI0505I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR506
ERRM: INVALID ACTION VALUE

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE SQL request included an invalid SPICE ACTION host variable value. The requested operation could not be processed.

The only valid values are “!ACTION!=OPEN_IN”, “!ACTION!=OPEN_OUT”, “!ACTION!=CLOSE” and “!ACTION!=TEST”.

System Action: This code is accompanied by message SPI0506I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR507
ERRM: INVALID STATUS VALUE

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE SQL request included an invalid SPICE STATUS host variable value. The requested operation could not be processed.

The only valid values are “!STATUS!=STATIC” and “!STATUS!=ACTIVE”.

System Action: This code is accompanied by message SPI0507I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR509
ERRM: CHANGE FROM STATIC TO STATIC INVALID

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE statement requested a change in program area status to “static” when the area was already “static”, i.e. it was already frozen. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0509I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR510
ERRM: SPICE DATABASE FAILURE (SQLCODE=s999)

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: SPICE SQL received an invalid SQLCODE when processing against the SPICE SQL restart database. The SQLCODE is documented in the SQLERRM tokens. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0510I. Control is returned to the application program.

Programmer Response: Examine the reported SQLCODE. If the cause of the problem is evident, correct it and restart the job. If not, refer it to your technical support team responsible for SPICE.

CODE: -681
STATE: SR511
ERRM: AREA ALREADY SELECTED

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE SQL request attempted to declare a program area that had already been declared. The requested operation could not be processed.

System Action: This code is accompanied by message SPI0511I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR513
ERRM: AREA/RECORD NOT CONTIGUOUS

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE SQL request specified a set of host variables for a SPICE PAM program area or SPICE SAM record I/O area that did not collate into a single area of storage. The requested operation could not be processed.

This problem can be created when COBOL programs specify a host structure containing “FILLER” variables. The DB2 precompiler omits “FILLER” variables from the list of variables that are passed to SPICE. If this is the case, changing their names to other than “FILLER” will correct the problem.

System Action: This code is accompanied by message SPI0513I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR516
ERRM: INVALID RECLLEN PARAMETER

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The SPICE SQL SAM request specified an invalid value assigned to the RECLLEN column. The requested operation could not be processed.

The RECLLEN parameter must take the value “!RECLLEN!=<number>”, where “<number>” consists only of the digits “0” to “9”.

System Action: This code is accompanied by message SPI0516I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR517
ERRM: INVALID FILE RECORD LENGTH

Warn Codes: SQLWARN0 and SQLWARN6 set to “W”.

Explanation: The record length of a SPICE SAM file did not comply with the value specified in the OPEN request. The requested operation could not be processed.

This can be caused by assigning the wrong file to the program. It can also be caused by incorrect specification of the OPEN parameters.

System Action: This code is accompanied by message SPI0517I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681

STATE: SR518

ERRM: INVALID DDNAME PREFIX

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: A SPICE services test facility request specified a DDname prefix of less than the required 5 characters.

System Action: This code is accompanied by message SPI0518I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681

STATE: SR520

ERRM: CAF CONNECT FAILURE

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: A call to DB2 CAF failed.

System Action: This code is accompanied by message SPI0520I.

Programmer Response: Correct the problem and retry.

CODE: -681

STATE: SR521

ERRM: CAF OPEN FAILURE

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: A call to DB2 CAF failed.

System Action: This code is accompanied by message SPI0520I.

Programmer Response: Correct the problem and retry.

CODE: -681

STATE: SR522

ERRM: CAF CLOSE FAILURE

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: A call to DB2 CAF failed.

System Action: This code is accompanied by message SPI0520I.

Programmer Response: Correct the problem and retry.

CODE: -681

STATE: SR523

ERRM: CAF DISCONNECT FAILURE

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: A call to DB2 CAF failed.

System Action: This code is accompanied by message SPI0520I.

Programmer Response: Correct the problem and retry.

CODE: -681

STATE: SR524

ERRM: INVALID CAF PLIST

Warn Codes: SQLWARN0 and SQLWARN6 set to "W".

Explanation: A call to DB2 CAF failed.

System Action: This code is accompanied by message SPI0520I.

Programmer Response: Correct the problem and retry.

CODE: -681

STATE: SR703

ERRM: INVALID REQUEST CODE

Explanation: A SPICE restart API request specified a request code unknown to SPICE.

System Action: This code is accompanied by message SPI0703I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR704
ERRM: PROGRAM AREA NAME OMITTED
Explanation: A SPICE restart API program area management request did not specify a name for the area.
System Action: This code is accompanied by message SPI0704I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR705
ERRM: PARAMETERS OMITTED
Explanation: A SPICE restart API request missed out a required parameter.
System Action: This code is accompanied by message SPI0705I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR706
ERRM: EXCESSIVE PARAMETERS
Explanation: A SPICE restart API request specified too many parameters.
System Action: This code is accompanied by message SPI0706I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR707
ERRM: FILE DD NAME OMITTED
Explanation: A SPICE restart API sequential file request did not specify the required DD name.
System Action: This code is accompanied by message SPI0707I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR708
ERRM: INVALID FILE OPEN PARAMETER
Explanation: A SPICE restart API sequential file OPEN request did not specify a processing mode known to SPICE. Valid values are "INPUT" & "OUTPUT"
System Action: This code is accompanied by message SPI0708I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR709
ERRM: COMMIT NOT SUPPORTED
Explanation: The application requested a commit when no restart database was available. The commit could not be performed.
System Action: This code is accompanied by message SPI0709I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR710
ERRM: BACKOUT NOT SUPPORTED
Explanation: The application requested a rollback when no restart database was available. The rollback could not be performed.
System Action: This code is accompanied by message SPI0710I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -681
STATE: SR711
ERRM: INVALID RANGE
Explanation: A SPICE restart API request specified an invalid address range. Either the second address did not succeed the first, or it did not address a valid terminating string.
System Action: This code is accompanied by message SPI0711I. Control is returned to the application program.
Programmer Response: Correct the problem and restart the job.

CODE: -911

STATE: 40000

ERRM: THE CURRENT UNIT OF WORK HAS BEEN ROLLED BACK

Explanation: A rollback has occurred. The database management system has abandoned all updates since the previous successful commit point. This situation can occur when SPICE is unable to complete a commit point successfully, because of a failure to restart database.

System Action: This code is accompanied by message SPI0110I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

Chapter 4. SPICE DL/I™ and SPICE Restart API Status Codes

Introduction

When the application program issues SPICE requests to SPICE DL/I, SPICE DL/I returns a two byte status code in the IMS PCB. The values returned conform to those returned by IMS, in similar circumstances. In some situations SPICE DL/I also issues a message.

When the application program issues SPICE Restart API requests, SPICE returns a two byte status code in field SRASTAT of the SRACA. The values returned are compatible with those returned by IMS in the PCB status code. In some situations SPICE also issues a message.

For each SPICE status code the following information is provided, where applicable:

Explanation: What the status code means; why it occurred; what caused it.

System Action: What SPICE will do as a result of the condition.

Programmer and/or Operator Response: What the programmer and/or operator should do when the condition occurs.

SPICE Status Codes

blank

Explanation: A blank status code is returned when the requested operation was successfully processed.

System Action: Control is returned to the application program.

Programmer Response: None.

AB

SPICE DL/I Explanation: No I/O area was specified in the application request. The requested operation could not be processed.

SPICE Restart API Explanation: Required parameter(s) were missing from the application request. The requested operation could not be processed.

System Action: Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

AD

SPICE DL/I Explanation: An invalid function code was specified. The requested operation could not be processed.

SPICE Restart API Explanation: An invalid SPICE restart API request code was specified. The requested operation could not be processed.

System Action: Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

AF

Explanation: The length of the record is invalid. The requested operation could not be processed.

System Action: Control is returned to the application program.

Programmer Response: Correct the program, or input file, and restart the job.

AH

SPICE DL/I Explanation: No record search argument was specified in a “GU” call. The requested operation could not be processed.

SPICE Restart API Explanation: Required parameter(s) were missing from the application request. The requested operation could not be processed.

System Action: Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

AI

Explanation: The “OPEN” request failed. “OPEN” requests can fail for the following reasons:

SPICE DL/I & SPICE Restart API

- The requested DDname was not allocated in the job JCL.
- The file was already open.
- The file was being opened for input following a restart from a checkpoint, when the file had been open for output, or vice-versa.
- The record size specified in the open request does not match that of the file.
- The operating system open request failed.
- The file type is not supported by SPICE SAM.
- The DCB for the SPICE SAM file is invalid.
- Fewer buffers defined than required for reposition, probably during restart.
- A SPICE services test facility request specified a DDname prefix of less than the required 5 characters.

SPICE DL/I

- The request IO area did not contain “INP”, “OUT”, “OUTA” or “OUTM”.
- A record request (“GU”, “GN” or “ISRT”) was made when the (non-GSAM) file had not yet been opened.

The requested operation could not be processed.

System Action: For operating system “OPEN” failures and invalid DCBs, SPICE issues a “SPI0030” or “SPI0035” message, respectively. For the other causes, SPICE issues an appropriate message. Control is returned to the application program.

Programmer/Operator Response: Correct the problem and restart the job.

AJ

SPICE DL/I Explanation: Too many parameters have been specified in the SPICE DL/I SAM request. The requested operation could not be processed.

SPICE Restart API Explanation: The requested operation could not be processed, for one of the following causes:

- Too many parameters have been specified in the SPICE restart API request
- Parameters defining a range in storage were invalid. Either the second address did not succeed the first, or the second did not address a valid terminator value.

System Action: Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

AL

Explanation: SPICE was unable to process a commit or rollback request, because no restart database was available. The requested operation could not be processed.

System Action: Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

AM

Explanation: An input request was made against an output file, or vice-versa. The requested operation could not be processed.

System Action: Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

AT

Explanation: An IO area was specified for a SPICE SAM DL/I request, when none was required. The requested operation could not be processed.

System Action: Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

BC

Explanation: A rollback has occurred. The database management system has abandoned all updates since the previous successful commit point. This situation can occur when SPICE is unable to complete successfully a commit point, because of a failure to the restart database.

System Action: This code is accompanied by message SPI0110I. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

GB

Explanation: End of file was detected upon a record input request. The input request could not be processed.

System Action: Control is returned to the application program.

Programmer Response: None.

GE

SPICE PAM Explanation:

- *Program area Declaration:*
The SPICE restart database contains no restart data for the program area. This usually indicates that the program is being started.
- *Other Program area Requests:*
The program area has not been declared.

Commit Request Explanation: The commit point was suppressed by SPICE. DB2 cursor processing and IMS database position are unaffected.

System Action: Control is returned to the application program.

Programmer Response: None.

NO

Explanation: BSAM encountered an I/O error when processing the request. The requested operation could not be processed.

System Action: SPICE issues a "SPI0038" message. Control is returned to the application program.

Programmer Response: Correct the problem and restart the job.

RX

Explanation:

- *Declaration Request:*
The program area has already been declared.
- *Status Change Request:*
The application requested that a program area be made static when it was already static, i.e. frozen.

System Action: Control is returned to the application program.

Programmer Response: None.

X9

SPICE SAM Explanation: A SPICE SAM file record was longer than the record area, as defined at open.

SPICE PAM Explanation: A program area in the SPICE restart database was longer than the area within the program.

System Action: SPICE truncates the input record, to fit into the record area. Control is returned to the application program.

Programmer Response: Correct the problem, if appropriate.

ZZ

Explanation: The application program has issued a SPICE services test request. The application JCL included DD name "xxxxxERR", where "xxxxx" is the DDname prefix specified in the request.

System Action: This code is accompanied by message SPI0261I. Control is returned to the application program.

Programmer/Operator Response: This problem should occur only in testing environments. To prevent its recurrence, remove DD name "xxxxxERR" from the JCL. The job may then be restarted.

Chapter 5. SPICE SQL™ and SPICE DL/I™ User Abend Codes

Introduction

This chapter lists the user abend codes issued by SPICE. In each case SPICE will also issue an error message. The messages associated with user abends are all flagged “*ABEND*”. Chapter 2 of this manual lists the messages issued by SPICE.

For each user abend code the following information is provided, where applicable:

Explanation: What the abend means; why it occurred; what caused it.

System Action: What SPICE will do as a result of the condition.

Programmer and/or Operator Response: What the programmer and/or operator should do when the condition occurs.

User Abend Codes

4090

Explanation: This user abend code is issued when SPICE encounters an error condition from which it cannot continue executing.

System Action: The program abnormally terminates.

Programmer/Operator Response: Refer to the appropriate entry in Chapter 2 of this manual for details of the associated message.

4091

Explanation: This user abend code is issued by the SPICE utility program SPIUTI00 when it encounters an error condition from which it cannot continue executing.

System Action: Program SPIUTI00 abnormally terminates.

Programmer/Operator Response: Refer to the appropriate entry in Chapter 2 of this manual for details of the associated message.

4092

Explanation: This user abend code is issued after SPICE has detected an application timeout condition. This arises when the application program has failed to issue a checkpoint over a user defined interval. Typical causes of application timeout are program loops, wait states and poor application logic. The ABEND indicates an application program problem, detected by SPICE.

System Action: The program abnormally terminates.

Programmer/Operator Response: Report the problem as an application program failure.

4088

Explanation: This user abend code can occur following a SPICE initiated User Abend when the application executes within the z/OS Language Environment. LE module CEEBINIT will have intercepted the SPICE termination which in turn terminated with the User 4088 Abend, reason code 00000063. The SPICE problem will be documented by the preceding SPICE message.

System Action: Program SPIUTI00 abnormally terminates.

Programmer/Operator Response: Refer to the appropriate entry in Chapter 2 of this manual for details of the associated message.

Chapter 6. SPICE SQL™ and SPICE DL/I™ Internal Failure Codes

Introduction

This Chapter details the SPICE SQL and SPICE DL/I failure codes. Most SPICE detected failures use the failure code as their message number. The cause of these failures can be determined by examining the related message descriptions given in Chapter 2 of this manual. The other failure codes are reported by SPICE using message “SPI0000I”, with the failure number contained in the message text. In general, these failure conditions relate to error conditions caused by invalid conditions in the SPICE environment. In most cases, these problems should be referred to your technical support team responsible for SPICE.

For each SPICE internal failure code the following information is provided, where applicable:

Explanation: What the failure code means; why it occurred; what caused it; the meaning of any additional parameters in the message.

System Action: What SPICE will do as a result of the condition.

Programmer and/or Operator Response: What the programmer and/or operator should do when the condition occurs.

Internal Failure Codes

SPICE FAILURE CODE 002

Explanation: Refer to the description of message SPI0002I for details.

SPICE FAILURE CODE 004

Explanation: Refer to the description of message SPI0004I for details.

SPICE FAILURE CODE 005

Explanation: Refer to the description of message SPI0005I for details.

SPICE FAILURE CODE 006

Explanation: Refer to the description of message SPI0006I for details.

SPICE FAILURE CODE 008

Explanation: Refer to the description of message SPI0008I for details.

SPICE FAILURE CODE 009

Explanation: Refer to the description of message SPI0009I for details.

SPICE FAILURE CODE 010

Explanation: SPICE detected an invalid SPICE SAM file type.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 012

Explanation: Refer to the description of message SPI0012I for details.

SPICE FAILURE CODE 014

Explanation: Refer to the description of message SPI0014I for details.

SPICE FAILURE CODE 017

Explanation: A SPICE control block has been corrupted.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 018

Explanation: Refer to the description of message SPI0018I for details.

SPICE FAILURE CODE 019

Explanation: SPICE DL/I failed to determine the application IMS region type.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Correct the problem and restart the job.

SPICE FAILURE CODE 020

Explanation: Refer to the description of message SPI0020I for details.

SPICE FAILURE CODE 021

Explanation: A SPICE "SIVT" control block has been corrupted.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 022

Explanation: Refer to the description of message SPI0022I for details.

SPICE FAILURE CODE 023

Explanation: Refer to the description of message SPI0023I for details.

SPICE FAILURE CODE 024

Explanation: Refer to the description of message SPI0024I for details.

SPICE FAILURE CODE 025

Explanation: Refer to the description of message SPI0025I for details.

SPICE FAILURE CODE 026

Explanation: Refer to the description of message SPI0026I for details.

SPICE FAILURE CODE 027

Explanation: Refer to the description of message SPI0027I for details.

SPICE FAILURE CODE 028

Explanation: Refer to the description of message SPI0028I for details.

SPICE FAILURE CODE 029

Explanation: A SPICE control block has been corrupted.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 030

Explanation: Refer to the description of message SPI0030I for details.

SPICE FAILURE CODE 031

Explanation: Refer to the description of message SPI0031I for details.

SPICE FAILURE CODE 032

Explanation: Refer to the description of message SPI0032I for details.

SPICE FAILURE CODE 033

Explanation: Refer to the description of message SPI0033I for details.

SPICE FAILURE CODE 034

Explanation: A SPICE control block has been corrupted.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 035

Explanation: Refer to the description of message SPI0035I for details.

SPICE FAILURE CODE 037

Explanation: Refer to the description of message SPI0037I for details.

SPICE FAILURE CODE 038

Explanation: Refer to the description of message SPI0038I for details.

SPICE FAILURE CODE 039

Explanation: Refer to the description of message SPI0039I for details.

SPICE FAILURE CODE 042

Explanation: Refer to the description of message SPI0042I for details.

SPICE FAILURE CODE 043

SPICE SQL Explanation: SPICE failed to reposition a SPICE SAM file, during restart processing.

SPICE DL/I Explanation: SPICE failed to reposition a SPICE SAM file, during restart or "GU" processing.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 044

Explanation: Refer to the description of message SPI0044I for details.

SPICE FAILURE CODE 045

Explanation: Refer to the description of message SPI0045I for details.

SPICE FAILURE CODE 046

Explanation: Refer to the description of message SPI0046I for details.

SPICE FAILURE CODE 100

Explanation: Exceptional condition has occurred in SPICE processing.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 101

Explanation: Refer to the description of message SPI0101I for details.

SPICE FAILURE CODE 102

Explanation: Refer to the description of message SPI0102I for details.

SPICE FAILURE CODE 103

Explanation: An item of a SPICE restart was found to be corrupt. This problem may occur with SPICE DL/I following a failure, when IMS database backout was not performed before a restart was attempted.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: For SPICE DL/I applications, ensure that IMS database backout has been performed. If not, do IMS database backout and restart the job. Otherwise, refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 104

Explanation: Refer to the description of message SPI0104I for details.

SPICE FAILURE CODE 105

Explanation: Refer to the description of message SPI0105I for details.

SPICE FAILURE CODE 106

Explanation: Refer to the description of message SPI0106I for details.

SPICE FAILURE CODE 107

Explanation: Refer to the description of message SPI0107I for details.

SPICE FAILURE CODE 109

Explanation: Refer to the description of message SPI0109I for details.

SPICE FAILURE CODE 110

Explanation: Refer to the description of message SPI0110I for details.

SPICE FAILURE CODE 111

Explanation: Refer to the description of message SPI0111I for details.

SPICE FAILURE CODE 113

Explanation: Refer to the description of message SPI0113I for details.

SPICE FAILURE CODE 114

Explanation: The SPICE DL/I MSDB restart database is corrupt.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 115

Explanation: Refer to the description of message SPI0115I for details.

SPICE FAILURE CODE 116

Explanation: Refer to the description of message SPI0116I for details.

SPICE FAILURE CODE 117

Explanation: Refer to the description of message SPI0117I for details.

SPICE FAILURE CODE 118

Explanation: Refer to the description of message SPI0118I for details.

SPICE FAILURE CODE 120

Explanation: Refer to the description of message SPI0120I for details.

SPICE FAILURE CODE 121

Explanation: Refer to the description of message SPI0121I for details.

SPICE FAILURE CODE 122

Explanation: Refer to the description of message SPI0122I for details.

SPICE FAILURE CODE 124

Explanation: Refer to the description of message SPI0124I for details.

SPICE FAILURE CODE 150

Explanation: Refer to the description of message SPI0150I for details.

SPICE FAILURE CODE 151

Explanation: Refer to the description of message SPI0151I for details.

SPICE FAILURE CODE 201

Explanation: Refer to the description of message SPI0201I for details.

SPICE FAILURE CODE 202

Explanation: The "ATTACH" of the SPICE subtask failed. The attach return code is documented in message SPI0000I.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Examine the value of the return code. If the cause of the problem is apparent, correct it and restart the job. If not, refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 203

Explanation: The SPICE subtask has failed. Message SPI0000I identifies its failure code. A value of "4" indicates that an invalid request was made to the SPICE subtask.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 204

Explanation: Refer to the description of message SPI0204I for details.

SPICE FAILURE CODE 205

Explanation: Refer to the description of message SPI0205I for details.

SPICE FAILURE CODE 207

Explanation: Refer to the description of message SPI0207I for details.

SPICE FAILURE CODE 209

Explanation: Refer to the description of message SPI0209I for details.

SPICE FAILURE CODE 210

Explanation: SPICE application timeout has occurred. This condition will be accompanied by one or more of the following messages: SPI0211W, SPI0212A, SPI0213I, SPI0214I or SPI0217I. Refer to the description of the displayed messages for details.

SPICE FAILURE CODE 216

Explanation: SPICE application timeout has occurred, and execution of the application program is abnormally terminated. Message SPI0213I documents the failure.

System Action: SPICE will ABEND with user code 4092.

Programmer and/or Operator Response: Report the problem as an application program failure.

SPICE FAILURE CODE 217

Explanation: Refer to the description of message SPI0217I for details.

SPICE FAILURE CODE 218

Explanation: SPICE application timeout has occurred, and execution of the application program is abnormally terminated. Message SPI0213I documents the failure.

System Action: SPICE will ABEND with user code 4092.

Programmer and/or Operator Response: Report the problem as an application program failure.

SPICE FAILURE CODE 220

Explanation: Refer to the description of message SPI0220I for details.

SPICE FAILURE CODE 250

Explanation: Refer to the description of message SPI0250I for details.

SPICE FAILURE CODE 251

Explanation: Refer to the description of message SPI0251I for details.

SPICE FAILURE CODE 260

Explanation: Refer to the description of message SPI0260I for details.

SPICE FAILURE CODE 261

Explanation: Refer to the description of message SPI0261I for details.

SPICE FAILURE CODE 262

Explanation: Refer to the description of message SPI0262I for details.

SPICE FAILURE CODE 304

Explanation: The command being processed is incomplete. This is an internal failure of the SPICE utility parsing routines.

System Action: SPICE will ABEND with user code 4091.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 307

Explanation: The command table being processed by the SPICE utility parsing routines is invalid.

System Action: SPICE will ABEND with user code 4091.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 314

Explanation: A SPICE parsing routine “SPWA” control block has been corrupted.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 315

Explanation: A critical error has occurred, in the execution of the SPICE parsing routine “SPIPGCMD”.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 316

Explanation: Refer to the description of message SPI0316I for details.

SPICE FAILURE CODE 401

Explanation: Refer to the description of message SPI0401I for details.

SPICE FAILURE CODE 402

Explanation: Refer to the description of message SPI0402I for details.

SPICE FAILURE CODE 403

Explanation: Refer to the description of message SPI0403I for details.

SPICE FAILURE CODE 411

Explanation: Refer to the description of message SPI0411I for details.

SPICE FAILURE CODE 431

Explanation: Refer to the description of message SPI0431I for details.

SPICE FAILURE CODE 432

Explanation: Refer to the description of message SPI0432I for details.

SPICE FAILURE CODE 433

Explanation: Refer to the description of message SPI0433I for details.

SPICE FAILURE CODE 435

Explanation: Refer to the description of message SPI0435I for details.

SPICE FAILURE CODE 450

Explanation: Refer to the description of message SPI0450I for details.

SPICE FAILURE CODE 451

Explanation: Refer to the description of message SPI0451I for details.

SPICE FAILURE CODE 452

Explanation: Refer to the description of message SPI0452I for details.

SPICE FAILURE CODE 453

Explanation: Refer to the description of message SPI0453I for details.

SPICE FAILURE CODE 454

Explanation: Refer to the description of message SPI0454I for details.

SPICE FAILURE CODE 455

Explanation: Refer to the description of message SPI0455I for details.

SPICE FAILURE CODE 456

Explanation: Refer to the description of message SPI0456I for details.

SPICE FAILURE CODE 457

Explanation: Refer to the description of message SPI0457I for details.

SPICE FAILURE CODE 458

Explanation: Refer to the description of message SPI0458I for details.

SPICE FAILURE CODE 459

Explanation: Refer to the description of message SPI0459I for details.

SPICE FAILURE CODE 460

Explanation: Refer to the description of message SPI0460I for details.

SPICE FAILURE CODE 461

Explanation: Refer to the description of message SPI0461I for details.

SPICE FAILURE CODE 500

Explanation: Exceptional condition has occurred in SPICE SQL processing.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 501

Explanation: SPICE SQL could not process the SQL parameter list.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 502

Explanation: Refer to the description of message SPI0502I for details.

SPICE FAILURE CODE 503

Explanation: Refer to the description of message SPI0503I for details.

SPICE FAILURE CODE 504

Explanation: Refer to the description of message SPI0504I for details.

SPICE FAILURE CODE 505

Explanation: Refer to the description of message SPI0505I for details.

SPICE FAILURE CODE 506

Explanation: Refer to the description of message SPI0506I for details.

SPICE FAILURE CODE 507

Explanation: Refer to the description of message SPI0507I for details.

SPICE FAILURE CODE 509

Explanation: Refer to the description of message SPI0509I for details.

SPICE FAILURE CODE 510

Explanation: Refer to the description of message SPI0510I for details.

SPICE FAILURE CODE 511

Explanation: Refer to the description of message SPI0511I for details.

SPICE FAILURE CODE 512

Explanation: Refer to the description of message SPI0512I for details.

SPICE FAILURE CODE 513

Explanation: Refer to the description of message SPI0513I for details.

SPICE FAILURE CODE 514

Explanation: Refer to the description of message SPI0514I for details.

SPICE FAILURE CODE 516

Explanation: Refer to the description of message SPI0516I for details.

SPICE FAILURE CODE 517

Explanation: Refer to the description of message SPI0517I for details.

SPICE FAILURE CODE 518

Explanation: Refer to the description of message SPI0518I for details.

SPICE FAILURE CODE 520

Explanation: Refer to the description of message SPI0520I for details.

SPICE FAILURE CODE 521

Explanation: Refer to the description of message SPI0521I for details.

SPICE FAILURE CODE 522

Explanation: Refer to the description of message SPI0522I for details.

SPICE FAILURE CODE 523

Explanation: Refer to the description of message SPI0523I for details.

SPICE FAILURE CODE 524

Explanation: Refer to the description of message SPI0524I for details.

SPICE FAILURE CODE 600

Explanation: Refer to the description of message SPI0600I for details.

SPICE FAILURE CODE 601

Explanation: Refer to the description of message SPI0601I for details.

SPICE FAILURE CODE 602

Explanation: Refer to the description of message SPI0602I for details.

SPICE FAILURE CODE 603

Explanation: Refer to the description of message SPI0603I for details.

SPICE FAILURE CODE 604

Explanation: Refer to the description of message SPI0604I for details.

SPICE FAILURE CODE 605

Explanation: Refer to the description of message SPI0605I for details.

SPICE FAILURE CODE 606

Explanation: Refer to the description of message SPI0606I for details.

SPICE FAILURE CODE 607

Explanation: Refer to the description of message SPI0607I for details.

SPICE FAILURE CODE 611

Explanation: Refer to the description of message SPI0611I for details.

SPICE FAILURE CODE 612

Explanation: Refer to the description of message SPI0612I for details.

SPICE FAILURE CODE 613

Explanation: Refer to the description of message SPI0613I for details.

SPICE FAILURE CODE 614

Explanation: Refer to the description of message SPI0614I for details.

SPICE FAILURE CODE 615

Explanation: Refer to the description of message SPI0615I for details.

SPICE FAILURE CODE 616

Explanation: Refer to the description of message SPI0616I for details.

SPICE FAILURE CODE 700

Explanation: Exceptional condition has occurred in SPICE Restart API processing.

System Action: SPICE will ABEND with user code 4090.

Programmer and/or Operator Response: Refer the problem to your technical support team responsible for SPICE.

SPICE FAILURE CODE 701

Explanation: Refer to the description of message SPI0701I for details.

SPICE FAILURE CODE 702

Explanation: Refer to the description of message SPI0702I for details.

SPICE FAILURE CODE 703

Explanation: Refer to the description of message SPI0703I for details.

SPICE FAILURE CODE 704

Explanation: Refer to the description of message SPI0704I for details.

SPICE FAILURE CODE 705

Explanation: Refer to the description of message SPI0705I for details.

SPICE FAILURE CODE 706

Explanation: Refer to the description of message SPI0706I for details.

SPICE FAILURE CODE 707

Explanation: Refer to the description of message SPI0707I for details.

SPICE FAILURE CODE 708

Explanation: Refer to the description of message SPI0708I for details.

SPICE FAILURE CODE 709

Explanation: Refer to the description of message SPI0709I for details.

SPICE FAILURE CODE 710

Explanation: Refer to the description of message SPI0710I for details.

SPICE FAILURE CODE 711

Explanation: Refer to the description of message SPI0711I for details.

Chapter 7. SPICE™ Formatted Dump Contents

Introduction

This chapter explains the contents of the SPICE formatted dump. The dump is produced in two circumstances. Firstly, it is produced when SPICE determines an error in its processing, from which it cannot recover. Alternatively, the dump is produced when the ESTAE exit of the SPICE subtask is invoked by z/OS, after a program interrupt, for example. In the second circumstance, it is possible that the failure was caused by the application, the database management system, or z/OS. Failures caused by SPICE can usually be distinguished by, either the issuing of a SPICE failure message, or the SPICE formatted dump summary section identifying a SPICE module.

The formatted dump contains all of the SPICE control blocks active in a failed job, in a reasonably compact form. It is intended for use by the vendor's support staff. It usually contains sufficient information to determine an error in SPICE.

SPICE writes its dump to DD name SPIUDUMP. If nothing is allocated to the DD name, SPICE will dynamically allocate a class A SYSOUT dataset to it.

The dump begins with the highlighted message START OF FORMATTED DUMP. It ends with the message END OF FORMATTED DUMP. The contents of the dump are in three sections, namely, the SPICE failure summary, the SPICE control block and IMS PCB section, and the SCP control blocks.

Formatted Dump Sections

- [SPICE Failure Summary](#) on page 57
- [SPICE Control Blocks and IMS PSB Contents](#) on page 58
- [SCP Control Blocks](#) on page 58

SPICE Failure Summary

This section attempts to identify the location of the failure, using the contents of the registers at the time of the failure. If the conventions of using register 12 as base register, and identifying the module name at offset 5 from its origin, are followed, the name of the module in control at the time of the failure will be located. All SPICE routines (and many operating system and database management system routines also) follow this convention. If possible SPICE will also report the offset of the point of failure from the beginning of the module. The following items may be reported in this section:

SPICE FAILURE CODE ccc The failure was detected by SPICE, and assigned SPICE code ccc. SPICE will typically issue error message SPI0ccc or, in the case of SPICE internal failures, message SPI0000. After issuing the dump SPICE will ABEND with user code 4090.

USER ABEND CODE uuuu	The failure was detected by the SPICE ESTAE exit, when the application issued a user ABEND code uuuu.
SYSTEM ABEND CODE sss	The failure was detected by the SPICE ESTAE exit, when the application failed with a system ABEND code sss, in hexadecimal.
MODULE	The first 24 bytes of the highlighter at the beginning of the module in control at the time of the failure, assuming register 12 as the base register. For SPICE modules this highlighter contains the name of the module and its service level. If it cannot be determined, it is reported as *****.
OFFSET	The hexadecimal offset of the point of failure from the register 12 address. If it cannot be determined, it is reported as ****.
REGISTER CONTENTS	The contents of the registers at the time of the failure, in hexadecimal.
SPICE FAILURE MESSAGE	The text of the SPICE message associated with the failure.

SPICE Control Blocks and IMS PSB Contents

This section contains the contents of the major SPICE and database management system control blocks. Each item is identified by a message, prefixed with =====.

A brief description of the items reported in this section of the dump follows.

SPICE ITEM ID <...> KEY <SIVT ...> This message identifies a section of the SVT control block. The title of the section is reported in the field labelled KEY <...>.

The SPICE Interface Vector Table is the central control block through which SPICE addresses all its other control blocks, loaded routines etc. Their contents are included in the dump.

APPLICATION SQLCA The contents of the SQLCA for the application program module that issued the current, or last, SQL statement.

SPICE SQL DDM SQLCA The contents of the SQLCA for the SPICE SQL restart database table access routines.

SPICE ITEM ID <SSPD> KEY < value > This message identifies an SSPD control block for the named SPICE SAM sequential file.

The SSPD is used to store information about a SPICE SAM dataset, including the name of the DD statement that it is allocated to. There is one SSPD for each open SPICE SAM dataset. For SPICE SAM files accessed through SPICE DL/I, the GSAM or SSAM PCB used to access the dataset, addressed from the SSPD, is included in the dump, labelled SSAM PCB.

SPICE ITEM ID <SSBC> KEY <ddname number > This message identifies an SSBC control block of the named SPICE SAM sequential file.

The SSBC represents each of the buffers of an open SPICE SAM file. The contents of the buffer are also included in the dump, labelled I/O BUFFER.

SPICE ITEM ID <SPAD> KEY <name> This message identifies a SPAD control block for the named program area.

Each SPAD represents a declared restart area of the program.

SCP Control Blocks

This section contains a SNAP dump of the major z/OS control blocks for the application program. The TCBS for the application subtask and/or the SPICE subtask are reported.