



SPIN-X/ CENTRAL
Operator Guide
for the Xerox Printer Support Feature
Version 4R5

Corsair Technology, Inc.



**Operator Guide
for the Xerox Printer Support Feature**

Version 4R5

Document Revision January 12, 1996

Corsair Technology Inc.
Atlanta, Georgia 30303

Document revision date - May 12, 1997

Central Document Version 4R5

Printed in the United States of America

SPIN-X® is a trademark of Corsair Technology Incorporated.

Xerox® is a trademark of Xerox Corporation.

Unisys® is a trademark of Unisys Corporation.

IBM® is a trademark of International Business
Machines Corporation.

© 1997 by Corsair Technology Inc.

The contents of this document are proprietary to
Corsair Technology Inc., and are not to be disclosed to others or
used for purposes other than intended without
the written approval of Corsair Technology Inc.

The SPIN-X software provides on-line access to IBM 3211 printer environments from Unisys Series 1100/2200 or System 11 computers via a byte or block multiplexor, or FIPS channel.

This operator guide contains information needed to control the SPIN-X software on your Unisys Series 1100/2200 computer.

The following documents are included with the SPIN-X software:

- *SPIN-X Installation Guide.*
- *SPIN-X Reference Guide.*
- *SPIN-X Operator Guide.*

This operator guide assumes the reader has access to the following Unisys document (for EXEC Level 39R3A or higher):

- *OS2200 Exec Systems Software Operations Reference Manual (7831-0281-011).*

Contents

Preface	i-i
1. Introduction	1-1
1.1. Basic Concepts About SPIN-X	1-1
1.2. SPIN-X Operation Vs. EXEC Operation	1-2
2. Start-up Procedures	2-1
2.1. Start-up Procedure for a Xerox 87xx/97xx/4x50/4090/4135 LPS	2-1
3. Operator Interface	3-1
3.1. Keyins	3-1
3.1.1. L* device (Status Keyin)	3-2
3.1.2. L* device CONS	3-3
3.1.3. L* device D	3-4
3.1.4. L* device E	3-4
3.1.5. L* device I	3-5
3.1.6. L* device L	3-5
3.1.7. L* device P queue	3-6
3.1.8. L* device Q	3-6
3.1.9. L* device R	3-7
3.1.10L* device S	3-8
3.1.11L* device T	3-8
3.1.12L*/TERM (Terminate SPIN-X normally)	3-8
3.1.13L*/KILL (Terminate SPIN-X with diagnostic dump)	3-9
3.1.14L*/ID (Display SPIN-X Identification)	3-9
3.2. Console Messages	3-10
4. Termination Procedure	4-1

Appendices

A. Indexed Listing of Error Messages	A-1
B. Operator Quick-Reference Sheet	B-1

Figures and Tables

Figure 1-1 Diagram of SPIN-X Functions	1-2
---	------------

The SPIN-X software package provides on-line access to IBM 3211 printer environments from Unisys Series 1100/2200 mainframe computers via a byte or block multiplexor channel. The Xerox 87xx, 97xx, 4090, 4650, 4850, 4050, and 4135 Electronic Printing Systems (LPS) are IBM 3211 printer emulators which operate in on-line mode. The term IBM 3211 Environment will be used in this document to refer to any device which emulates an IBM 3211 printer.

This operator guide contains information needed to operate and control the SPIN-X software on your Unisys Series 1100/2200 system.

1.1 Basic Concepts About SPIN-X

SPIN-X is a real-time program which functions as a printer handler for the Unisys 1100/2200. It is a user program rather than a routine of the Unisys Executive System, therefore it will appear as a normal batch run.

SPIN-X interfaces with the Unisys 1100/2200 EXEC in order to perform many of its specialized functions. Among these functions are included:

1. Examining the Unisys 1100/2200 symbiont queues to select print files. Print files reside in the symbiont queues ordered in a first-in-first-out basis within priority classes.
2. Interpreting the print files.
3. Generating the channel program and acting upon status information from the printers.
4. Interfacing with the 1100/2200 operator via the **L*** keyin and console messages.

An illustration of these SPIN-X functions is shown in Figure 1-1. The indicated numbers within the illustration correspond to the numbers associated with the functions listed above.

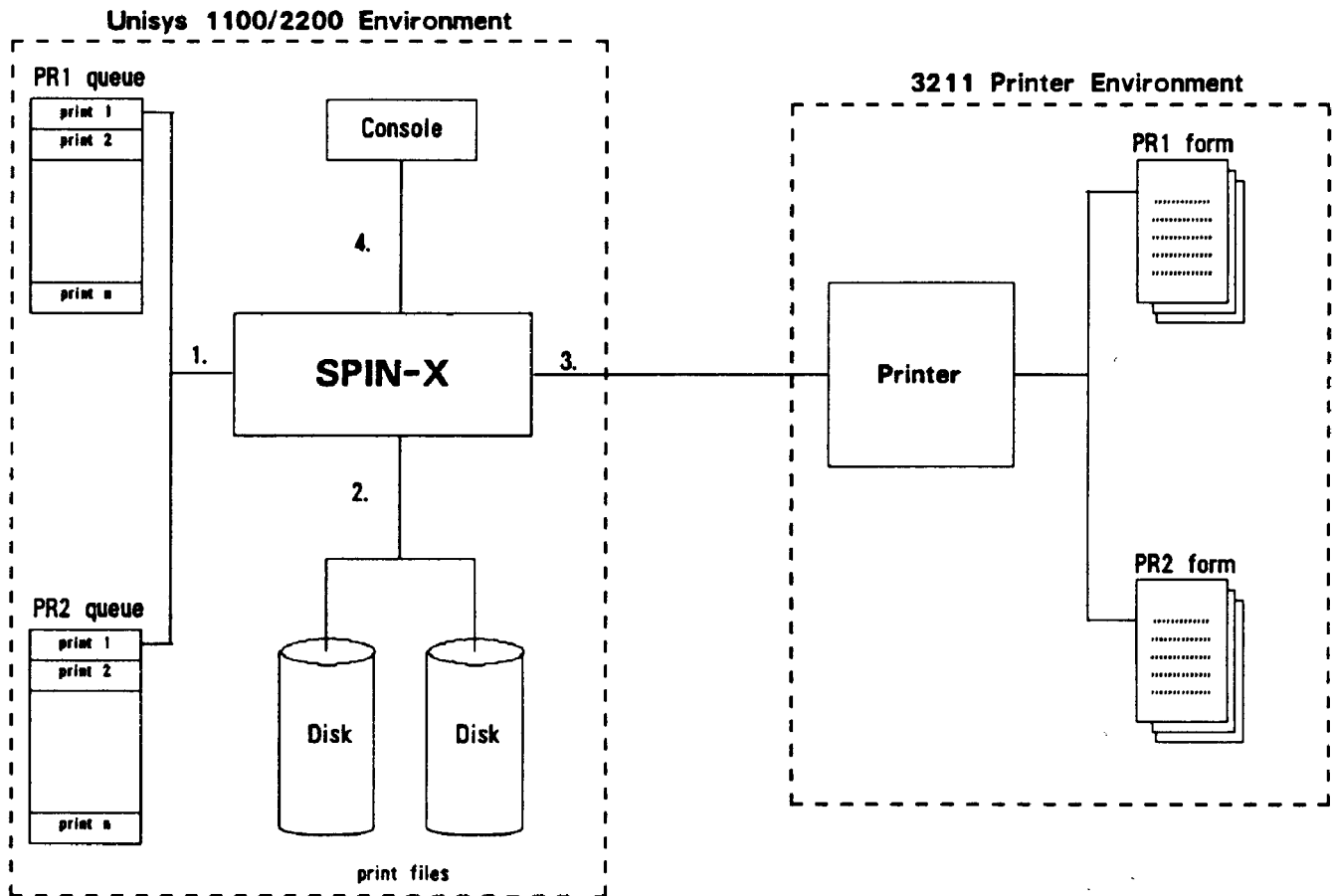


Figure 1-1 Diagram of SPIN-X Functions

1.2 SPIN-X Operation Vs. EXEC Operation

In the Unisys 1100/2200 EXEC symbiont environment, printers are brought on-line with the **UP** device keyin, and taken off-line with the **RV** device keyin. Printers may further be controlled with the **SM** keyin using symbiont operations, such as, **E**, **I**, **L**, **P**, **Q**, **R**, **S** and **T**.

Printers which are under control of SPIN-X must always be in the **RV**'d state (this allows SPIN-X to assign the printers) even when SPIN-X is actively printing. In order to bring a printer on-line with SPIN-X, use the **L*** keyin with either the **I** or **P** operations. Printers may be taken off-line using the SPIN-X **L*** keyin with the **L**, **Q** or **T** operations. Refer to Section 3.1 for detailed explanations of the **L*** keyin operations.

Normally, the SPIN-X run on the Unisys 1100/2200 is started by the SYS run at boot time. The SPIN-X run will appear as a batch job with the runid of **SPIN-X** (or it may be duplicated). If for some reason, SPIN-X has not been started or has error terminated, then it may be restarted with the following keyin:

ST SPIN-X

SPIN-X is ready to accept **L*** keyins when its processor call line is printed (which takes approximately 30 seconds after it is started). The SPIN-X processor call line is of the form:

SPIN-X version R release (map-date-&-time) load-date-&-time
customer-name
SPIN-X CUSTOMER NUMBER: customer-number

where ...

map-date-&-time is the date and time that SPIN-X was last mapped,

load-date-&-time is the time this SPIN-X run was initialized,

customer name is a 1-80 character string assigned by GSURF and

customer-number is an 8 digit number assigned by GSURF.

Before initiating SPIN-X for printing on a device, make sure that the printer is on-line. Follow Section 2.1 for a Xerox 9700, 9790, 8700, 8790, 4135, 4090, 4050, 4850, or 4650 EPS and follow Section 2.2 for a Xerox 4075 CPS.

2.1 Start-up Procedure for a Xerox 87xx/97xx/4x50/4090/4135 LPS

On the Xerox LPS console, use the following commands to bring the printer on-line and to start the on-line SPIN-X program:

ONLINE

START default-form, ON1100

When this program has started successfully, the following message will be displayed on the Xerox console:

"ON-LINE" INPUT IS WAITING FOR DATA.

On the 1100/2200 console, initialize the printer with the SPIN-X keyin:

L* device I

At this point, print requests will be processed by SPIN-X. If print files are being successfully transferred to the Xerox LPS, then the following message will appear on the Xerox console:

"ON-LINE" INPUT IS RECEIVING DATA.

When you are finished using the printer, it may be locked out by entering the following SPIN-X keyin:

L* device L

...and the 1100/2200 console should respond with,

device 0047: LOCKED STOP

Then, on the Xerox LPS console, enter **END** in order to flush the remaining prints.

This section describes how SPIN-X interfaces with the Unisys 1100/2200 operator. It explains each SPIN-X keyin in detail, as well as, describing the possible error messages.

3.1 Keyins

The SPIN-X keyins allow the operator to...

- Check the status of each printer under SPIN-X control,
- Use an alternate console group for routing printer-related messages for any device which is supported by SPIN-X,
- Initiate printing on a printer using a specific queue or queue-group,
- Lock out a printer after printing the current print file,
- Lock out a printer and re-queue the current print file,
- Lock out a printer and delete the current print file's queue entry,
- Terminate the printing of a current print file, delete its queue entry and continue printing other files,
- Temporarily suspend the printer,
- Reprint or skip pages within a specific print file,
- Terminate SPIN-X normally,
- and terminate SPIN-X to generate a diagnostic listing.

The general format of a SPIN-X keyin is:

L* *device* [*operation*]

where...

device = the name of the symbiont device (e.g., printer).

operation = the specific operation desired (this field is optional).

3.1.1 L* device (Status Keyin)

Description	This keyin is used to request the status of the printer.
Format	L* device where <i>device</i> is the name of the printer.
Response	The console response to this keyin will be in the following format <i>device status1 status2 PAGE = xxx</i> <i>device queue runid filename</i> where <i>device</i> is the name of the printer, <ul style="list-style-type: none">• <i>status1</i> is one of the following:
LOCKED	SPIN-X stopped the device or it will stop the device as soon as the current file has finished printing. This status will occur when the operator performs an L, Q, or T operation.
SUSPENDED	SPIN-X suspended the device or will suspend the device as soon as the device buffers are empty. This status occurs when the operator issues the S operation. The device will remain suspended until an I operation is performed.
WAITING	SPIN-X is indicating that no file is available to print. The device will start printing when there is a file queued.
ACTIVE	SPIN-X is indicating that the device has a file active and that it is trying to print.
INACTIVE	SPIN-X is indicating that the device has not been active since SPIN-X was last started. <ul style="list-style-type: none">• <i>status2</i> is one of the following:
PRINTING	SPIN-X is indicating that the printer is currently printing the files.
REPRINT	SPIN-X is indicating that the printer is repositioning in response to an R (reprint) operation.
SKIP	SPIN-X is indicating that the printer is repositioning in response to an R (skip) operation.
STOP	SPIN-X is indicating that the printer is stopped. This occurs when the operator performs an L, Q, T or S keyin, or if the printer is INACTIVE.
I/O ERROR	An I/O error has occurred. <ul style="list-style-type: none">• <i>xxx</i> is the currently active page number..• <i>queue</i> is the print queue currently being processed.

3.1.2 L* device CONS

Description This keyin allows the operator to direct printer-related messages to a specific alternate console or group of consoles.

Format This keyin has three formats:

Format 1: L* device CONS

Format 1 allows the operator to check the status of the console message routing. The status is printed in the following format for C series systems:

device 000228: ROUTING CONSOLE MESSAGES TO xxxxx

where, **xxxxx** is either a group-class or a site-id. For M-series systems, the status is displayed in the following format:

device 000240: MESSAGE ROUTING TO MESSAGE GROUP NUMBER n

where **n** is a console message group number in the possible range 0..63.

Format 2: L* device CONS *site-id*

...where *site-id* is 6 characters or less, and indicates an active demand site in console mode with both response and full keyin capability. Format 2 allows the operator to re-route printer-related messages to the *site-id*.

Format 3: L* device CONS #*n*

...where **n** is a console message group number in the possible range 0..63. The "#" symbol must be typed with the keyin. The following is a list of console message group numbers with any corresponding message group names:

0 is the main system message group name SYSMSG,
1 is the I/O activity message group name IOMSG ,
2 is the communication message group name RSICOM,
3 is the hardware confidence message group name HDWCOM,
4-7 are user message group names USER4..USER7,
8-63 are available for site defined message group names.

Examples:

```
L* device CONS #0
L* device CONS #1
L* device CONS #4
L* device CONS #8
```

The first example routes messages to the main EXEC console SYSMSG. The second example routes messages to the I/O activity console IOMSG. The third example routes messages to the USER4 console. The fourth example routes messages to the site defined console message group number 8.

Response:

device 000240: MESSAGE ROUTING TO MESSAGE GROUP NUMBER n

NOTE: 2200/500/900 Systems are restricted to Format 1 and Format 3 keyins.

3.1.3 L* *device* D

Description	This keyin allows the operator to request diagnostic information about internal SPIN-X tables to be printed within the SPIN-X run's PRINT\$ file.
Format	L* <i>device</i> D where... <i>device</i> is the name of the printer.
Response	None. NOTE: The diagnostic information that this keyin produces is only helpful for debugging user-exits.

3.1.4 L* *device* E

Description	This keyin will terminate the printing of the current file on the printer, delete the file's queue entry and continue processing other print files. The operator uses this keyin when the remaining part of the print file is not desired.
Format	L* <i>device</i> E where... <i>device</i> is the name of the printer.
Response	None.

3.1.5 L* device I

- Description** This keyin will initiate printing on a specified printer. The operator uses this keyin to initially begin printing or to resume printing after a previous L, S, T or Q operation.
- Format** L* device I
where...
device is the name of the printer.
- Response** When the SPIN-X I keyin is employed to resume operation from a *SUSPENDED* state, the following message is displayed:
device 000428: RESUMING
- NOTE:** This keyin must be used to resume operation from a *SUSPENDED* state, even if the L* *device P queue* keyin initiated printing. If the P keyin initiated printing, it is still in effect once printing is resumed from suspension via the I keyin.
- NOTE:** When this keyin is used to initiate printing, only queues defined in the EXEC as being associated with the printer via the **OUTPUT queue device** statement will be selected for printing.

3.1.6 L* device L

- Description** If the specified device is *WAITING*, then this keyin will cause SPIN-X to lock out the device immediately; otherwise, the device is locked out following the completion of the printing of the current print file. The operator may resume printing on the device using the I or P operations.
- Format** L* device L
where...
device is the name of the printer.
- Response** *device 000407: LOCKED STOP*

3.1.7 L* device P queue

Description	If the specified device is INACTIVE or LOCKED then this keyin will allow the operator to assign a specific queue to a printer. Other devices associated with the specified queue may be printing from it while the specified device is also.
Format	L* device P queue where... <i>device</i> is the name of the printer. <i>queue</i> is the name of the queue that will be assigned to <i>device</i> .
Response	None. NOTE: In addition to printing files from the particular queue, any files queued directly to the device will be printed. This keyin may not be used to resume printing from a SUSPENDED state; see Section 3.1.6. This keyin must be used to print from a queue defined in EXEC as "STATION <i>queue</i> LOCAL".

3.1.8 L* device Q

Description	This keyin will terminate the printing of the current file on the printer, re-queue the file, and lock out the device. The operator generally uses this keyin when abnormal printing occurs due to a device malfunction.
Format	L* device Q where... <i>device</i> is the name of the printer.
Response	<i>device</i> 000407: LOCKED STOP

3.1.9 L* device R

Description	<p>This keyin allows the operator to reprint or skip portions of the current print file. The maximum number of pages that may be reprinted/skipped is 262,000; any number entered that is larger than this maximum will be reduced to 262,000. The R keyin also allows the operator to reprint the entire file. Make sure that the device is in the SUSPENDED state before any reprint/skip command is attempted.</p> <p>NOTE: After using the R keyin the printer must be re-activated from it's SUSPENDED state with the L* <i>device</i> I command. The I keyin should be used to re-activate SPIN-X even if the P keyin was originally used to initiate SPIN-X. If original initiation was by the P keyin, it will still be in force upon re-activation by the I keyin.</p>
Format	This keyin has 3 formats:
Format 1:	<p>L* <i>device</i> Rxxx L* <i>device</i> I</p> <p>where...</p> <p><i>device</i> is the name of the printer on which the current file is printing, xxx is the number of pages to REPRINT.</p>
Format 2:	<p>L* <i>device</i> R+xxx L* <i>device</i> I</p> <p>where...</p> <p><i>device</i> is the name of the printer on which the current file is printing, xxx is the number of pages to SKIP.</p>
Format 3:	<p>L* <i>device</i> RALL L* <i>device</i> I</p> <p>where...</p> <p><i>device</i> is the name of the printer on which the current file is to be entirely REPRINTED.</p>
Response	None.

3.1.10 L* device S

Description	This keyin will temporarily suspend the printing of the current file. The operator uses this keyin to quickly, but temporarily, suspend the device. The device may be resumed only with the I operation.
Format	L* device S where... <i>device</i> is the name of the printer.
Response	<i>device</i> 000427: SUSPENDED

3.1.11 L* device T

Description	This keyin will terminate the printing of the current file on the printer, delete the file's queue entry and lock out the device. The operator uses this keyin when the remainder of a print file is not desired. The operator may resume printing with the I or P operation.
Format	L* device T where... <i>device</i> is the name of the printer.
Response	<i>device</i> 000407: LOCKED STOP

3.1.12 L*/TERM (Terminate SPIN-X normally)

Description	This keyin will terminate SPIN-X normally. All assigned devices must not be active before SPIN-X will terminate.
Format	L*/TERM
Response	<i>runid</i> 000227: SPIN-X TERMINATING

3.1.13 L* /KILL (Terminate SPIN-X with diagnostic dump)

Description	This keyin is used for diagnostic purposes and problem resolution only. This keyin will terminate SPIN-X regardless of current operations in progress and send a diagnostic dump to the PRINT\$ file.
Format	L* /KILL
Response	<i>runid</i> ABORT

3.1.14 L* /ID (Display SPIN-X Identification)

Description	This keyin will identify the version of SPIN-X that is currently running. This keyin is useful to user exit programmers since it displays map and load information.
Format	L */ID
Response	SPIN-X version R release (<i>map-date-&-time</i>) <i>load-date-&-time</i> <i>customer-name</i> SPIN-X CUSTOMER NUMBER: <i>customer-number</i> ...where <i>map-date-&-time</i> is the date and time that SPIN-X was last mapped, <i>load-date-&-time</i> is the date and time that SPIN-X was first loaded into memory, <i>customer-name</i> is a 1-80 character name assigned by GSURF and <i>customer-number</i> is a number assigned by GSURF to each site.

3.2 Console Messages

When SPIN-X encounters a device error requiring operator notification and/or intervention, it prints a console message in the following format:

n device error message responses

where...

- device** is the name of the device.
- error** is the number assigned to the error by SPIN-X, which may be used to easily locate the error description in Appendix A.
- message** is a description of the type of error that occurred
- responses** are allowable operator responses, which are shown below:

- A** Indicates that the operator wants to retry the failing operation and recover from the error.
- E** Indicates that the operator wishes to immediately stop the printing of the current file, but begin printing the next file. The operator uses the E when the remainder of the current file is not desired, but (s)he wants to continue printing.
- G** Indicates that the operator prefers to ignore the error and bypass the failing command. Printing continues as if the failing command had been performed. Not currently used.
- M** Indicates that the operator requests more information. This is normally only used for debugging. SPIN-X will display 9 lines of additional information on the 1100/2200 console. This information is shown below:

```

device Q*F=qualifier*filename. RUN=runid
device CSW0=xxxxxxxxx CSW1=xxxxxxxxx
device CSW2=xxxxxxxxx
device COMMAND CODE=xx
device SENSE BYTES=xx xx xx xx xx xx

```

where...

*qualifier*filename* is the qualifier and the filename of the print file that *device* is printing.

runid is the runid of the run which symmed the file.

and, *x* is a number.

- Q** Indicates that the operator wants to terminate the printing of the file, but re-queue the file for printing at a later time. The *device* is locked out until an **I** or **P** keyin is performed.
- R** Indicates that the operator wants to retry the failing portion of the file, by reprinting the last several pages. A number is required with the **R** response indicating the number of pages to reprint. The printer does *not* have to be suspended to issue this response.
- T** Indicates that the operator wishes to terminate the printing of the current print file, and not re-queue the file for printing at a later time. The **T** response causes the printer to be locked out until the operator performs an **I** or **P** keyin.

NOTE: If SPIN-X posts an outstanding error message regarding printer operations to the console, e.g., **000533: INTERVENTION REQUIRED**; then the message should be answered before any **L*** keyins are entered.

4

Termination Procedure

Before the operator may terminate the SPIN-X run, (s)he must lock out all of the printers controlled by SPIN-X. This can be done with the following SPIN-X keyin:

L* device L

...which should respond with the message:

device 000407: LOCKED STOP

NOTE: The END or DRAIN command might have to be entered on the Xerox console in order to complete the processing of prints already sent to the printer.

Finally, the operator may terminate the SPIN-X run with the following keyin:

L* /TERM

Response

runid 000227: SPIN-X TERMINATING

A Indexed Listing of Error Messages

The following is a numerically ordered listing of SPIN-X messages. Each message is followed by a short explanation.

Note that error messages flagged with a dagger (†) indicate internal SPIN-X errors and **rarely** (if ever) occur. If any of these errors occur, the system administrator should notify Georgia State University. Also, error messages flagged with a double dagger (††) only apply to an actual 3211 impact printer.

† **000001: OUTPUT BUFFER OUT OF LIMITS FOR ER COM\$**

Notify your system administrator.

† **000002: EXPECTED INPUT COUNT EXCEEDS MAX FOR ER COM\$**

Notify your system administrator.

† **000003: INPUT BUFFER OUT OF LIMITS FOR ER COM\$**

Notify your system administrator.

† **000004: NO VALID CHARACTERS IN OUTPUT FOR ER COM\$**

Notify your system administrator.

000005: SECURED CONTROL BIT ERROR FOR ER COM\$

Notify your system administrator. SPIN-X needs the SSSCONSOLE privilege.

† **000006: MESSAGE UNDELIVERABLE - CONSOLE NOT ACTIVE**

The *site-id* or *group-class* specified on a **CONS** keyin is not available. Perform a **CONS** status keyin to verify the destination. If the destination is incorrect, perform a **CONS** keyin with a correct destination, otherwise, notify your system administrator.

000007: xxx IS AN INVALID RESPONSE

The response, *xxx*, given to an outstanding message is not one of the available choices.

000008: THE R RESPONSE NUMERIC VALUE IS INVALID

The numeric value given within an **L* device R** keyin is either out-of-range, includes an invalid character or is in an invalid format.

000009: OPERATOR RESPONSE REQUIRED

An outstanding message from SPIN-X was answered with no response. An appropriate response is required for SPIN-X to continue.

† **000051: UNDEFINED STATUS RETURNED FROM ER LOG\$**

Notify your system administrator.

† **000052: PACKET WAS TOO SMALL FOR ER LOG\$**

Notify your system administrator.

000053: EXEC PROHIBITED ER LOG\$ OF TYPE 35 LOG ENTRY

Notify your system administrator. SPIN-X needs the SSLOGGER privilege.

† 000054: ER LOG\$ PACKET OUTSIDE ADDRESS RANGE

Notify your system administrator.

000055: CALLS TO ER LOG\$ HAVE EXCEEDED MAXLOG

Notify your system administrator. It may be necessary to increase the EXEC SGS MAXLOG.

† 000056: INVALID LOG TYPE SPECIFIED VIA ER LOG\$

Notify your system administrator.

000200: ENTER "RV *device*" AND ANSWER Y; ELSE, ANSWER N

SPIN-X could not assign the printer during its initialization. Usually this indicates the device is not in a reserved state. If so, RV the printer and answer "Y" to the message. To have SPIN-X by-pass this printer answer "N".

000201: NOT FOUND - (C)ONTINUE OR (T)ERMINATE?

This error may occur shortly after SPIN-X has started. This message indicates that although the *device* is in the list of SPIN-X controlled devices, SPIN-X could not find the *device* in the EXEC configuration. C - allows SPIN-X to continue, however, the *device* will not be under SPIN-X control. T - will terminate SPIN-X.

000202: NOT A SPIN-X CONTROLLED DEVICE

The *device* is not one that SPIN-X is allowed to control. If it is desired that SPIN-X control the *device*, then it will be necessary to define it using the Format Definition Program.

000203: UNASSIGNED

SPIN-X could not assign the *device*, because it is assigned to another run, or the QUOTA bit (allowing absolute device assignment) for the account number is not set, or the userid under which SPIN-X runs hasn't been given the SSIOADID security privilege, or the device is not defined in the system configuration.

000204: UNRECOGNIZED QUEUE OR DEVICE NAME

An **L* *device* P *queue*** keyin was attempted and the *queue* is not one which is recognized by SPIN-X.

† 000205: SMOQUE HANDLER NOT ACTIVATED

Notify your system administrator.

† 000206: FILE HANDLER NOT ACTIVATED

Notify your system administrator.

† 000207: INACTIVE - DUMP NOT TAKEN

An **L* *device* D** keyin was attempted for an INACTIVE device.

000208: SKIP COMMAND INVALID; DEVICE NOT SUSPENDED

An **L* *device* R+xxx** skip operation was attempted when the device was not in a suspended state. Suspend the device and retry the operation.

000209: REPRINT COMMAND INVALID; DEVICE NOT SUSPENDED

An **L* *device* Rxxx** reprint operation was attempted when the device was not in a suspended state. Suspend the device and retry the operation.

000210: ALREADY INITIATED

The *device* has already been initiated. The only legal operations during this time are E, L, Q, R, S and T.

000211: UNRECOGNIZED SPIN-X KEYIN

The operator attempted an L* *x* where *x* is an unrecognized operation.

000212: DEVICE NOT TERMINATED

The operator attempted to initialize the printer using either an I or P operation, however, SPIN-X has not completely terminated the device after the last L, Q or T operation. Attempt to initialize the device again, but notify your system administrator if the problem persists.

000213: DEVICE NOT ACTIVE

The *device* is INACTIVE and the operator attempted an E, L, Q, R, S or T operation. The device must be initiated with the I or P operation before these actions can be taken.

000214: UNRECOGNIZED REMOTE CONSOLE NAME

An L* *device* CONS keyin was attempted using an unrecognized *site-id* or *group-class*. Verify the destination and re-enter the keyin.

000215: INVALID REPRINT/SKIP VALUE

An L* *device* R keyin was attempted using an invalid reprint/skip value. Verify the reprint/skip value and re-enter the keyin.

000216: INITIATED; SPIN-X NOT TERMINATED

An L* /TERM keyin was attempted while a device was still initiated. Lock out all devices before entering the termination keyin.

† **000217: SYMINFO\$ SSDCD\$ FAILED - SPIN-X TERMINATED**

The SSDCD\$ function of the ER SYMINFO\$ was unsuccessful. Notify your system administrator.

† **000218: UNABLE TO ASSIGN SORT FILE - SPIN-X TERMINATED**

SPIN-X was unable to assign a temporary sort file. Notify your system administrator.

† **000219: BANK ACQUISITION FAILED - SPIN-X TERMINATED**

The EXEC was unable to place SPIN-X in main storage. Notify your system administrator.

† **000220: FATAL IO\$ ERROR ON FORMS READ - STATUS**

An I/O error was encountered while reading the Format Definition File.

† **000221: NOTE: THE SPIN-X LICENCE WILL EXPIRE IN xx DAYS**

This is only a warning that the SPIN-X License Agreement needs to be renewed. A new version of SPIN-X will be shipped upon renewal.

000222: * WARNING: SPIN-X WILL CEASE OPERATION IN xx DAYS!**

The SPIN-X License Agreement has expired.

† **000224: CUSTOMER RECORD INVALID; SPIN-X TERMINATING**

The Customer Configuration record is invalid.

000226: SPIN-X FEATURE NOT INSTALLED FOR DEVICE

An operation was attempted involving a feature not installed with this version of SPIN-X.

000227: SPIN-X TERMINATING

SPIN-X has accepted the L* /TERM keyin.

000228: ROUTING CONSOLE MESSAGES TO X

SPIN-X has rerouted messages for the device specified in an L* *device* CONS keyin to console/terminal *x*; where *x* is the console class or site-id provided in the "CONS" keyin.

000229: PSEUDO-BDI NOT FOUND IN BTE TABLE SEARCH

This message most likely indicates an internal SPIN-X error. During initialization, SPIN-X attempted to match its internal BDI for a bank with the EXEC assigned BDI; however, SPIN-X was unable to locate its internal BDI in the BTE table. Report this error to the support line.

000230: BANK ACQUISITION FAILED; STATUS = x

This message most likely indicates an internal SPIN-X error. SPIN-X was unable to acquire the banks necessary to support the activity stacks. The "x" in the error message above is an ER BANK\$ status. Report this error to the support line.

000231: WARNING CONSOLE CONFIGURATION UNOBTAINABLE STATUS: xx

This message indicates SPIN-X was unable to obtain console information via ER MCT\$. This error is not fatal, but the re-direction of console output by the "L* *device* CONS" keyin may require the "L* *device* CONS #" syntax. See the "CONS" keyin.

000232: NO DEVICE IN SPIN-X CONFIGURATION - TERMINATING

SPIN-X is terminating because no devices were specified in the @FDP configuration, or because the devices could not be assigned, or because the needed features are not included in SPIN-X. Notify your system administrator.

000233: *queue* IS AN INVALID QUEUE FOR device REMOTE DROPPED

The output queue name for the Remote feature specified in the @FDP configuration is not one which is recognized by SPIN-X.

000234: *queue* IS AN INVALID QUEUE FOR device RJE DROPPED

The output queue name for the RJE feature specified in the @FDP configuration is not one which is recognized by SPIN-X.

000235: *queue* IS AN INVALID QUEUE FOR device XPRESS DROPPED

The output queue name for the XPRESS feature specified in the @FDP configuration is not one which is recognized by SPIN-X.

000236: *x* IS AN INVALID RESPONSE

The answer to the console message was invalid.

000237: BANK DELETION(S) FAILED; STATUS = x

This message most likely indicates an internal SPIN-X error. SPIN-X was unable to delete a bank. Currently, the only bank deleted by SPIN-X is its temporary work bank used during initialization. The "x" in the error message above is an ER BANK\$ status. Report this error to the support line.

000238: KEYIN *x* IS ALREADY REGISTERED; TERMINATING

Another program, probably SPIN-X, is executing that is already registered with Exec for keyin *x*, e.g. L*. Either the other program should be terminated or this SPIN-X should be assigned a unique keyin. See Chapter 6 of the Reference Guide for information on specifying a keyin to SPIN-X.

000239: ERROR STATUS RETURNED FROM ER KEYIN\$: x

This problem should be reported to your SPIN-X system administrator. SPIN-X received an error status from ER KEYIN\$ when it attempted to register for its keyin, e.g. L*. The status **x** is defined in the Unisys Executive Requests Programming Reference Guide.

000240: MESSAGE ROUTING TO MESSAGE GROUP NUMBER n

This message is in response to an L* CONS keyin. It indicates the console message group number where the SPIN-X messages for the device have been routed.

000242: DEVICE NOT CONFIGURED IN ODB; DROPPED

The device is defined in an Exec DEVICE SGS, but it has not been defined in the ODB via SCMS.

† **000301: STORAGE LIMITS VIOLATION FOR SMOQUE\$**

Notify your system administrator.

† **000302: ILLEGAL GROUP NAME GIVEN FOR SMOQUE\$**

Notify your system administrator.

† **000303: DEACTIVATE FALSELY ACTIVATED FOR SMOQUE\$**

Notify your system administrator.

† **000304: FILE NOT FOUND FOR SMOQUE\$**

Notify your system administrator.

000305: INTERNAL EXEC ERROR DURING ER SMOQUE\$

Notify your system administrator.

† **000306: SV/INPROGRESS INCOMPATIBILITY FOR SMOQUE\$**

Notify your system administrator.

† **000307: AMBIGUOUS MODE SETTINGS FOR SMOQUE\$**

Notify your system administrator.

† **000308: FILE ASSIGN/FREE ERROR FOR SMOQUE\$**

Notify your system administrator.

† **000309: TRUNCATION OF LABEL DATA FOR SMOQUE\$**

Notify your system administrator.

† **000310: TRUNCATION OF SMOQUE ENTRIES FOR SMOQUE\$**

Notify your system administrator.

† **000311: ILLEGAL PACKET LENGTH FOR SMOQUE\$**

Notify your system administrator.

† **000312: SMOQUE\$ CHANGE REQUEST NOT COMPLETED**

Notify your system administrator.

† **000313: MODE/FUNCTION CONFLICT FOR SMOQUE\$**

Notify your system administrator.

† **000314: REQUIRED MODE LEFT OFF OF SMOQUE\$ FUNCTION**

Notify your system administrator.

† 000315: ILLEGAL FUNCTION SPECIFIED FOR SMOQUE\$

Notify your system administrator.

000316: SPIN-X NEEDS SMOQUE\$ SECURITY PRIVILEGE

Notify your system administrator. SPIN-X needs the SSSMOQUE privilege.

† 000317: ILLEGAL DATA SUPPLIED FOR SMOQUE\$

Notify your system administrator.

† 000318: ILLEGAL NAME ON SMOQUE\$ ACTIVATE FUNCTION

The activity named on the SMOQUE\$ activate function is not known to the EXEC.

† 000337: ADT ERROR: DEVICE NOT ACTIVE

Notify your system administrator.

† 000337: ADT ERROR: ACTIVITY KEY NOT FOUND

Notify your system administrator.

† 000401: CCF FAILED TO INITIALIZE

Notify your system administrator.

† 000402: SHR FAILED TO INITIALIZE

Notify your system administrator.

000403: REPRINT/SKIP REQUEST IGNORED; NO FILE PRINTING

The device was suspended while in a WAITING state, and an R operation was requested. In other words, there was no file printing when the device was suspended, hence a reprint/skip operation is not possible.

000404: PRINTING TERMINATED; IO ERROR *xx*

An I/O error occurred while processing the print file, and printing could not continue. This error message appears on the partial output of the print file, where *xx* is the specific I/O error which may be found in Appendix C of the *Series 1100 Executive Programmers Reference*.

000405: ---- FILE FORMAT ERROR. FILE TERMINATED.

The file or a portion of the file is not in a format that SPIN-X recognizes. The printing of the file abnormally terminated. This error appears within the partial output of the print file.

000406: RESTORE PRINTER TO STANDARD FORMS

This message occurs after a special forms request has been completed on the *device*. Remove the special forms and replace them with standard forms.

000407: LOCKEDSTOP

The *device* has been locked and stopped using an L, Q or T operation.

000408: WAITING

There is no file available to be printed on the *device*. SPIN-X will start printing when there is a file queued.

000409: SKIPPED TO EOF - REPRINT? PAGES OR N

A skip keyin was attempted and SPIN-X detected an end of file before skipping the specified number of pages. Either reprint some pages or abort the print. If specifying a page number, do not include an "R" in your response.

000410: INVALID RESPONSE

An invalid response was given to the question asked in error message **000409**.

000411: ERROR ON ER TLBL\$ TAPE LABEL CALL; STATUS =

Error when obtaining information on a tape.

000412: END OF TAPE BUT NO NEXT TAPE IN MFD

The end of the tape has been reached but there is no end of file mark. The MFD indicates that there is no next tape.

000413: REEL# FROM ER TSWAP\$ NOT AS EXPECTED

The tape that was mounted is not the tape that was expected.

† **000414: CLOSE OR CONTINUE REQUEST BUT FILE NOT OPEN**

Internal SPIN-X error.

† **000415: INVALID FUNCTION PASSED TO FHRRDFLX**

Internal SPIN-X error.

000416: READ BUFFER SIZE INCOMPATIBILITY; STATUS

The block size for the current tape is larger than the block size that SPIN-X expects. The status returned is the block size needed to read the tape.

† **000421: INTERNAL ERROR: INVALID FCT**

Notify your system administrator.

† **000422: ADT OVERFLOW: DEVICE NOT ACTIVE**

Notify your system administrator.

† **000423: ADT ERROR: ACTIVITY KEY NOT FOUND**

Notify your system administrator.

000427: SUSPENDED

The device is suspended in response to an **L* device S** keyin.

000428: RESUMING

The device is re-activated from suspension in response to an **L* device I** keyin.

000434: THIS FILE IS EMPTY

This file is null; it contains no assigned granules. The first read from the file received an Error Type 1, I/O Status Code 05. This error message appears in the printout for the user's printfile.

000437: x PAGES WERE SKIPPED

This message is displayed after a SPIN-X page skip operation is completed.

000471: AN ERROR OCCURRED IN A TYPE 060 IMAGE ON PAGE n: x

This message is printed with the user's output when a print control function is encountered in the printfile that contains a syntax error. "n" is the page number where the bad print control function was encountered. "x" is the complete 060 image containing the syntax error.

† **000501: UNDEFINED STATUS FOR IOAID\$**

Notify your system administrator. A status was returned by IOAID\$ which is unrecognizable.

000503: DEVICE NOT AVAILABLE

A path to the *device* is not available or the printer's control unit is powered off. This may occur if you are using some kind of switch (such as a Channel Transfer Switch) to share the device with other hosts, and the switch is not set properly. Check the path to ensure that the device is available.

000504: CHANNEL CONTROL CHECK

Use the M response to request more information and notify your system administrator.

000505: BUS CHECK

Hardware error on the host.

000506: STORAGE CHECK

Hardware error on the host.

000507: INTERNAL HARDWARE CHECK

Hardware error on the host.

000508: MSU ACK FAULT

Hardware error on the host.

000509: UNSOLICITED STATUS

Hardware error on the printer.

000510: MSU INTERFACE FAULT

Hardware error on the host.

000511: DEFERRED CONDITION CODE

Hardware error on the host.

† 000512: PROGRAM CHECK

Notify your system administrator.

† 000513: INCORRECT LENGTH SPECIFICATION

Notify your system administrator.

† 000514: PCI BIT UNALLOWABLY SET

Notify your system administrator.

000515: NO PATH AVAILABLE

All paths to the *device* are **DN**.

000516: DEVICE BUSY

A sequencing fault between the channel and the printer has occurred for the previous command sent to the printer. Retry the command.

† 000517: UNIT EXCEPTION

Notify your system administrator.

† 000518: UNDEFINED CHANNEL/DEVICE STATUS

Notify your system administrator.

000519: UNIT CHECK

Inspect the printer for the error source, if the problem persists contact your system administrator.

† **000521: EQUIPMENT CHECK: COMMAND RETRY**

Inspect the printer for the error source and retry the command, but if the problem persists, contact your system administrator.

† **000522: EQUIPMENT CHECK: PRINT CHECK**

This error occurs when the print line in process contains one or more print errors. Inspect the printer for the error source.

† **000523: EQUIPMENT CHECK: PRINT QUALITY**

This error occurs when a machine failure develops that can affect print quality. Printing may be light or blurred. Inspect the printer for the error source.

† **000524: EQUIPMENT CHECK: MECHANICAL MOTION**

Inspect the printer for the error source and retry the operation.

000525: BUS-OUT CHECK

Use the M response and retry the command. If the problem persists, contact your system administrator.

† **000526: DATA CHECK: PRINT CHECK**

Notify your system administrator.

† **000527: DATA CHECK: PRINT QUALITY**

Notify your system administrator.

000528: BUFFER CHECK: LINE POSITION

Notify your system administrator.

000529: BUFFER CHECK: COMMAND RETRY

Notify your system administrator.

000530: BUFFER CHECK: UCSB PARITY ERROR

Notify your system administrator.

† **000531: COMMAND REJECT**

Notify your system administrator.

000532: LOAD CHECK

Notify your system administrator.

000533: INTERVENTION REQUIRED

The printer is not ready because of an interlock, print quality or a forms check. For Xerox printers, check the Xerox console for the exact problem.

000534: INTERVENTION REQ: TRAIN OVERLOAD

This occurs due to a variation in the train velocity. To prevent damage or motor failure, the train is stopped, causing the printer to go not-ready.

000535: INTERVENTION REQ: PLATEN FAILURE

This error occurs when the platen fails to move forward for printing or does not retract during a carriage operation. Shadowed or blurred printing may result.

000536: INTERVENTION REQ: RIBBON SKEW

This error occurs when the ribbon is aligned improperly.

000537: INTERVENTION REQ: FORMS CHECK

This occurs when a forms jam, end-of-forms or stacker-full is indicated.

000538: INTERVENTION REQ: FORMS JAM

This happens when a forms feeding malfunction occurs in a forms tractor, which may be due to a forms jam, ripped or torn form, or form separation.

† **000539: COMMAND SUPPRESS**

Notify your system administrator.

† **000540: CHANNEL 9 DETECTED**

Notify your system administrator.

000541: DEVICE TIMEOUT

The control unit has not responded within one minute. Inspect the printer for the error source. Contact your Xerox field engineer if the problem persists.

000542: EXEC EXPOOL SHORTAGE

Remove other jobs to acquire more EXEC expool.

† **000543: FORCED PATH NOT AVAILABLE**

Notify your system administrator.

† **000544: UNSOLICITED INTERRUPT CANCELLED**

Notify your system administrator.

† **000545: IOAID\$ ERROR ADI 05**

Notify your system administrator.

† **000546: TOO MANY CCWS IN LIST**

Notify your system administrator.

† **000547: INVALID CCW IN LIST**

Notify your system administrator.

† **000548: EXCESSIVE EF FOR NON-ARBDEV**

Notify your system administrator.

† **000549: INVALID FUNCTION FOR IOAID\$**

Notify your system administrator.

† **000550: DEVICE NOT ASSIGNED**

Notify your system administrator.

000551: DRUM ERROR DURING ER IOAID\$

SPIN-X could not print the file because of a Unisys disk error.

† **000552: DEVICE NOT ACCESSIBLE**

Notify your system administrator.

† 000553: DATA BUFFER OUT OF LIMITS

Notify your system administrator.

† 000554: INTER. ACT. OUT OF LIMITS

Notify your system administrator.

† 000555: CCW COUNT IS ZERO

Notify your system administrator.

† 000556: CCW LIST OUT OF LIMITS

Notify your system administrator.

† 000557: IOAID\$ PACKET TOO SMALL

Notify your system administrator.

† 000558: INVALID INIT. FLAGS FOR IOAID\$

Notify your system administrator.

† 000559: RESERVED CELL USED FOR IOAID\$

Notify your system administrator.

000560: IOAID\$ UNSUPPORTED PACKET LEVEL

Notify your system administrator.

000561: BUFFER CHECK: PLB PARITY ERROR

Notify your system administrator.

000562: BUFFER CHECK: FCB PARITY ERROR

Notify your system administrator.

000563: RESIDUAL BYTE COUNT: DATA LOSS

This normally means that the host attempted to send a longer line of data than the printer is prepared to accept. Check the Xerox JSL and make sure that the LENGTH parameter of the RECORD command is greater than or equal to the longest WIDTH value specified in your FDP input file at the host.

000564: RESIDUAL BYTE COUNT: RETRIABLE

This normally means that the host attempted to send a longer line of data than the printer is prepared to accept. Check the Xerox JSL and make sure that the LENGTH parameter of the RECORD command is greater than or equal to the longest WIDTH value specified in your FDP input file at the host.

000565: EQUIPMENT CHECK

The printer returns an equipment check.

000566: DATA CHECK

An unprintable character was encountered.

† 000567: ADT ERROR: DEVICE NOT ACTIVE

Notify your system administrator.

† 000568: ADT ERROR: ACTIVITY KEY NOT FOUND

Notify your system administrator.

† 000600: UNKNOWN DBH/PIM RETURN STATUS

Internal SPIN-X database handler error.

† 000601: INVALID DATA BASE FUNCTION CODE

An invalid request was made to the SPIN-X database handler.

† 000602: INVALID DATA BASE CALLER ID

An invalid activity attempted to access the database handler.

† 000603: INVALID TRB LENGTH

An invalid database handler request length was encountered.

† 000604: INVALID DATA BUFFER ADDRESS

An invalid database buffer address was given to the database handler.

† 000605: INVALID DATA BUFFER LENGTH

An invalid data length was given to the database handler.

† 000606: INVALID TRB FLAG BIT(S)

An invalid data length was given to the database handler.

000607: DATA BASE ASSIGN FAILED

SPIN-X was unable to assign the database.

000608: DATA BASE FREE FAILED

SPIN-X was unable to free the database.

† 000609: INVALID KEY FOR DATA BASE FUNCTION

An invalid key was given for a database search.

000610: INVALID USER FOR DATA BASE FUNCTION

An invalid user attempted to access the database.

† 000611: INTERNAL DBH/PIM ERROR

Internal SPIN-X database handler error.

† 000612: PIM DATABASE ERROR

Internal SPIN-X database handler error.

† 000613: COPY COUNT OVERFLOW/UNDERFLOW CONDITION

Internal SPIN-X database handler error.

† 000614: INVALID KEY INDEX

An invalid key index was supplied to the database handler.

† 000615: IO\$ ERROR READING SRI\$FLATFILE

An error occurred reading the SPIN-X repository file.

000616: UNABLE TO @ASG FILE @use-name; STATUS: status-bits

This message is printed if SRI\$DATABASE or SRI\$FLATFILE cannot be assigned. The "*@use-name*" is either SRI\$DATABASE or SRI\$FLATFILE. The "*status-bits*" are expressed as 12 octal digits that identify the EXEC facility inventory status bits. An explanation of each bit can be obtained from *Appendix C* of the *Series 1100 Executive System Programmer Reference* (UP-4144). The SPIN-X administrator should correct the problem with assigning the file and re-start the SPIN-X job.

000617: FILE @use-name IS UNLOADED

This message is printed if either SRI\$DATABASE or SRI\$FLATFILE are unloaded. The "@use-name" will display which file is unloaded. The SPIN-X administrator should perform a rollback of the unloaded file and then re-start the SPIN-X run.

000618: FILE @use-name IS EMPTY

This message is printed if either SRI\$DATABASE or SRI\$FLATFILE have no tracks assigned. The "@use-name" will display which file is empty. The SPIN-X administrator should re-create the database files by re-running the FDP.

000619: FILE @use-name IS HARDWARE DISABLED

This message is printed if either SRI\$DATABASE or SRI\$FLATFILE are hardware disabled. This means some directory information for the file has been lost due to a hardware failure. The "@use-name" will display which file is disabled. The SPIN-X administrator should re-create the database files by re-running FDP.

000620: INVALID HEADER LABEL ON SRI\$FLATFILE

This message is printed if SRI\$FLATFILE is not empty and does not contain a valid SPIN-X flatfile header label. This may indicate SRI\$FLATFILE has been corrupted or may be an older, incompatible version. The SPIN-X administrator should re-create the database files by re-running FDP.

000621: INVALID OR ANTIQUATED FORMS-DEF FILE

This error message means the FORMS-DEF file does not contain a time/date stamp record. This could occur if the FORMS-DEF file was never generated by FDP or was created by an FDP level prior to 4R1. FDP levels prior to 4R1 did not produce a time/date stamp. The SPIN-X administrator should re-create the database files by re-running FDP.

000622: INCOMPATIBILITY BETWEEN FORMS-DEF AND SRI\$DATABASE FILES

The time/date stamp record in the FORMS-DEF file does not match the time/date stamp record in the SRI\$DATABASE. The SPIN-X administrator should re-create the database files by re-running FDP.

000623: INCOMPATIBILITY BETWEEN FORMS-DEF AND SRI\$FLATFILE FILES

The time/date stamp record in the FORMS-DEF file does not match the time/date stamp record in the SRI\$FLATFILE. The SPIN-X administrator should re-create the database files by re-running FDP.

† 000629: ERROR ASSIGNING OUTPUT FILE FOR REMOTE/RJE

The alternate printfile to contain the output for an RJE or remote device could not be assigned. Report this error to GSU.

† 000630: ERROR LINKING TO OUTPUT FILE FOR REMOTE/RJE

An @USE linkname could not be attached to the alternate printfile for an RJE or Remote device. Report this error to GSU.

† 000631: ERROR CLOSING OUTPUT FILE FOR REMOTE/RJE

An "@BRKPT linkname" was unsuccessful to the alternate printfile for an RJE or Remote device. Report this error to GSU.

† 000632: ERROR FREEING OUTPUT FILE FOR REMOTE/RJE

An @FREE of the alternate printfile failed for an RJE or Remote device. Report this error to GSU.

† **000633: ERROR QUEUEING OUTPUT FILE FOR REMOTE/RJE**

An @SYM of the alternate printfile failed for an RJE or Remote device. Report this error to GSU.

B Operator Quick-Reference Sheet

This appendix is intended as a help sheet that may be quickly referenced by the Unisys 1100/2200 operator. It gives a short summary of SPIN-X keyins.

Format of **L*** Keyins:

L*device	(the device status keyin) status1 = LOCKED, SUSPENDED, WAITING, ACTIVE or INACTIVE; status2 = PRINTING, REPRINT, SKIP, STOP or I/O ERROR.
L*device CONS #n	Route all messages related to <i>device</i> to the specified console <i>group-number</i>
L*device CONS id	Route all messages related to <i>device</i> to the specified console <i>site-id</i> .
L* device E	Terminate printing of the current file on the printer, delete the queue-entry and continue processing other files.
L*device FOLD	Initiate lower to upper case conversion on the specified device.
L*device FOLD	Deactivate lower to upper case conversion on the specified device.
L* device I	Initiate printing on the specified <i>device</i> .
L* device L	Lock out the <i>device</i> after printing the current file.
L* device P queue	Print the specified <i>queue</i> on the <i>device</i> .
L* device Q	Terminate printing of the current file on the printer, re-queue the file and lock out the <i>device</i> .
L* device Rxxx	Reprint xxx pages of the current file printing on <i>device</i> .
L* device R+xxx	Skip xxx pages of the current file printing on <i>device</i> .
L* device RALL	Reprint the entire file currently printing on <i>device</i> .
L* device S	Suspend printing of the current file on the printer. Resume printing with the "I" keyin.
L* device T	Terminate printing of the current file on the printer, delete the file's queue entry and lock out the <i>device</i> .
L* device UNFOLD	This keyin will deactivate folding on the specified printer. The operator uses this keyin to cause all print images containing lower case letters to be printed as lower case.
L* /ID	Identify the version of SPIN-X that is currently running and display the customer name and customer number assigned by SPIN-X.
L* /TERM	Terminate SPIN-X normally.
L* /KILL	Terminate SPIN-X and create a diagnostic dump.