FUJITSU

ISS45 SIL

Standard Interchange Language

ISS45 Standard Interchange Language (SIL) Guide

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The ICL ISS45 SIL Interpreter

Version 2.0

June 19, 1997

PROPRIETARY NOTICE

RELEASE INFORMATION

This document describes release 2.0 of the FUJITSU ISS45 SIL Interpreter. This product uses the BOA® SIL Engine, Release 1.70, which conforms to Version 6.0 of the Standard Interchange Language Specifications manual.

Table Of Contents

Installation Instructions

1. **Turn on the PC computer.**

2. **Insert the SIL Interpreter Diskette 1 into drive A.**

3. **(NT Users - Start an MSDOS Command Window for the following commands)**
   Type a: and press Enter.

4. **Type install and press Enter.**

5. **The install program displays the following prompt:**

   The system will be installed in c:\SIL. Is this OK? (Y/N)

   Enter a Y to use the c:\SIL default.

   If you enter a N the program prompts you for the following:

   Enter the drive for installation. Enter one letter (ex. C).

   You should enter the letter of the drive on which you want to install the software.

   Enter the directory for installation.

   You should enter the name of the directory in which you want to install the software (up to 8 characters).

6. **The program then creates the following subdirectories below the main SIL directory:**

   incoming
   outgoing
   silwork

   The incoming and outgoing directories are referenced in the SIL Parameter file. If you install the software in a directory besides c:\SIL or you want to use different directories for your incoming and outgoing files, you must change the associated fields in the SIL Parameter file.

7. The program then displays the following prompt:

Insert the first disk to be copied into drive a:
Press any key to continue...

Press any key and the program will copy all the files on the diskette to your hard drive.

8. The program will then display the prompt:

Do you want to copy another diskette? (Y/N)

For each additional disk that you want to copy, you should answer this prompt Yes.

When you have copied all the diskettes, enter an N to the "Do you want to copy another diskette? (Y/N)" prompt.

9. The message is then displayed:

Installation successful.

Configuring ISS45

At this point, the SIL Host software has been installed on your machine. The next step is to set up your ISS45 software so that it can call the SIL Host software. To do so, follow this procedure:

1. **Exit to DOS from the ISS45 software.**

2. **Start the PPM utility.**

3. **Press F1 to select edit menus. Select the PLU_BATCH Menu. Add a line to this menu. Include the following parameters for this line:**

   Action Type: DOS Shell
   Exe File: \SIL\silmenu.exe
   User Priority: (Set to what is appropriate for your security needs)

   Note: If you installed the SIL system in a directory other than \SIL, be sure to use that directory name instead of \SIL in the Exe File field.
4. **Press OK to save the new menu entry, then exit out of the program.**

The SIL Host software will now be accessible from the PLU Batch Maintenance Menu. You can actually place it on any menu in the ISS45, but the SIL Menu looks correct when place on the PLU Batch Maintenance menu.

You must next set the ISS45 PLU Batch parameters. To do so, log on to the ISS45 software, and choose the following menues from the main menu:

6 Maintenance & Utilities
1 System Parameters
1 Back Office Parameters
8 PLU and Promotion Batches

You must set at least the following fields:

1. PLU Batch file name	**c:\pcmaster\HIXXXX.DAT**
6. PLU batch type	**Extended**
7. PLU batch file record size [Host files]	**256**
11.Promotion batch file name	**c:\pcmaster\PIXXXX.DAT**
13.Promotion batch file record size [Host files]	**86**

In addition, you should set the following parameters according to whether or not you want batch files to be executed automatically or not:

2. Allow PLU batch file activation by Date/Time
12.Allow promotion batch file activation by Date/Time

Using the SIL Host System

Starting the SIL Host System

The SIL Host system is started by selecting the proper choice from the PLU Batch Maintenance Menu. When you start it, a menu that appears identical to the ISS45's menus is displayed giving you three options: Translate Incoming SIL Files, Process SIL Extracts, and Set SIL Parameters.

Translate Incoming SIL Files

The Translate Incoming SIL Files program translates all incoming SIL files from their SIL format into the ISS45's batch format.

The translation process works as follows:

1. **The host communicates the SIL files to the PC, and then they are copied to the SIL incoming directory.**

2. **Either the user starts the Translate SIL Files program or the program is started using command line parameters.**

3. **The Translate SIL Files program translates each SIL file and creates batches in ISS45 format. The batches are written to the ISS45 subdirectory. If necessary, error logs are also created and stored in the SIL outgoing directory. The batch numbers will be either the numbers assigned by host or a reassigned number (See ISS45 Batch Numbers and SIL Batch ID).**

4. **After the translation process is complete, a report is generated. This report lists the batches that were created by the translation process. The report is printed only if the Print Summary Report? field in SIL parameters is set to Y.**

5. **The batches that were created can be edited or executed using ISS45's batch maintenance programs.**

The Screen Fields

The fields used by the translate program are:

SIL File Name

The name of the SIL file currently being translated.

Current Batch

The number of the batch currently being translated. SIL files can contain multiple batches and it is helpful to know which batch in the file is currently being translated. Once the SIL file is translated, each batch is separated into its own batch file.

Description

The description is sent by host and describes the contents of the current batch.

Record Count

The record count indicates the number of SIL statements (this is usually a count of items as well) that are contained in the batch being translated.

Error Count

The error count tracks the number of errors that have occurred while translating the current batch.

The Screen Messages

The messages portion of the screen will display messages that describe the progress of the translation. It will tell you how many SIL files or extracts are to be translated or applied, which file is currently being translated or applied and any errors that occur.

Operation

When you start the Translate SIL Files program, it checks the incoming SIL files directory to see if any files are there. If so, the program assumes that the files in this directory are SIL files and it attempts to translate them into ISS45 batches. This is the reason you MUST NOT store any files in the incoming directory other than SIL files (if you do this program will try to translate them).

As each file is translated a message is displayed. After all files have been translated, a message is displayed that indicates how many SIL files were successfully translated.

Error Messages

During the translation process, messages will appear that indicate what is occurring at that moment. Also, messages can appear on the screen that describe the errors that have occurred during the translation process.

In accordance with the SIL standard, the host can specify if it wants these errors logged to an error file and stored in the outgoing directory. Host can then pull back and examine the error files to see what is incorrect in the SIL files.

If the host chooses not to log the errors, these messages will appear only on the screen and in the Interpreter Log. (See Interpreter Log.)

Appendix A documents the errors that the FUJITSU SIL Interpreter will generate.

The SIL language errors that can occur during the translation process are errors that are caused when your host system generates incorrect SIL statements. They will always be detected during the translation process. Of these kinds of errors, there are three types of rejections:

1) File Rejection - file rejection means that something is wrong in the SIL file that prevents any part of the file from being accepted. No maintenance contained in the file can be applied.

2) Batch Rejection - batch rejection means that something is wrong with one batch in the SIL file but that the rest of the file maintenance is acceptable. For example, there may be 5 batches in a SIL file and 4 may be able to be applied. The batch name is written to the host error log.

3) Record Rejection - record rejection means that one record in a batch is not acceptable and is rejected. The rest of the batch can be applied. The record number is written to the host error log.

In addition, warnings may occur that indicate something wrong has occurred that is not significant enough to cause a rejection. You do not need to worry about warnings. If you would like a further explanation of warning messages, refer to the SIL Specifications Document. If you do not want to see warnings displayed, set the Display Warn Level parameter to 1. This will cause only serious errors to be displayed.

ISS45 Batch Numbers and SIL Batch ID

The SIL standard allows a host to use alpha-numeric batch identifiers that are up to 8 characters long. The ISS45 supports only 4 character numeric batch identifiers. As a consequence, it may not be possible to use the batch identifiers that are contained in the host file.

You have the option of indicating (in the SIL Parameters file) whether to use the batch identifiers contained in the host file. If you know that your host will only be using batch identifiers that are all numeric and less than 4 digits, it may be convenient for you to use the host batch numbering.
If, however, your host uses alphabetic characters or numbers longer than four digits, you will not be able to use the host's batch numbers. If this is the case, you will need to set the Starting Batch Num and Ending Batch Num parameters in the SIL Parameters file. These parameters allow you to set up a range of batch numbers for the SIL Host system to use.

These fields will be used by the SIL Host system to assign batch numbers to the incoming batches, if the Use Host Batch Num parameter is set to NO. The interpreter will assign the batch numbers sequentially, beginning with the Starting Batch Num. When it reaches the Ending Batch Num, it wraps back to the Starting Batch Num. It may take days or weeks to wrap back to the starting number, depending on the values you assign.

Set SIL Parameters

Set SIL Parameters is used to define general characteristics about the SIL environment. These parameters should be set before you use the system. Normally, you should not have to change these parameters. Below is the list of parameters that you need to set.

1. Automatically delete SIL files after they are processed?
If the default value of YES is used, whenever you translate a SIL file, the SIL file is automatically deleted. You should only change this parameter to NO if you are planning on saving SIL files for alternative uses. SIL files take up disk space and are useless to the system once they are translated. Also if you leave a SIL file in the incoming directory, it will be translated each time you run the Translate SIL Files program.

2. Use host batch numbers that are in the SIL file?

This parameter indicates if you want to use the batch id's that are included in the SIL file. (See ISS45 Batch Numbers and SIL Batch ID). Use one of the following values:

- **Y = Yes, use the batch id's in the SIL file.**
- **N = No, do not use the batch id's in the SIL file. Let the interpreter assign the batch numbers.**

3. Starting assigned batch number if not using host batch numbers

If you have set Use Host Batch Num=Y, this parameter indicates the first batch number to use when assigning batch numbers. (See ISS45 Batch Numbers and SIL Batch ID.)

4. Ending assigned batch number if not using host batch numbers

If you have set Use Host Batch Num=Y, this parameter indicates the last batch number to use when assigning batch numbers. (See ISS45 Batch Numbers and SIL Batch ID.)

5. Print summary report automatically after SIL file is processed?

If you want the summary report to be printed after running Translate SIL Files, set this parameter to Y.

6. Error display warning level

This parameter indicates the SIL Warning Level of the errors that you want to be displayed on the screen when running Translate SIL file. The purpose of it is to keep unimportant errors from cluttering up the screen. This number can be set to 1, 2 or 3. If set to one, only the most important errors will appear. If set to 2 or 3, less important errors will also appear on the screen.

7. Validate GPC check digits?

If this parameter is set to Y, the SIL Interpreter will require that GPC type fields have a legal check digit. If it is set to N, the SIL Interpreter will allow any digit as a GPC check digit.

8. Encode F01 (UPC) as SIL NUMBER type?

If this parameter is set to Y, the SIL Interpreter will encode the F01 (UPC) field as a NUMBER data type instead of as a GPC data type. This will be handy for host systems who conform to a version of the SIL Language Specification prior to revision 6.0.

9. Include subdepartment from SIL Files in batches?

If this parameter is set to Y, the subdepartment field that is in SIL files will be included in the batches. If it is set to N, the subdepartment field in the SIL files will be ignored. This will come in handy for those systems that do not use the subdepartment field of the ISS45.

10. Schedule maintenance for automatic execution?

If this parameters is set to Y, the maintenance will be set up to be applied automatically by the ISS45 at the time indicated in the SIL files. If it is set to N, the maintenance will not be set up to be applied automatically.

11. Store Name

This field is the name of the store. It is a copy of the Store Name parameter from the ISS45.

12. Incoming files directory

This parameter defines the drive and directory where the incoming SIL files must reside. The default is C:\SIL\INCOMING. If you want to store your SIL files in a different directory, you must first create the directory using DOS and then change this parameter.

Because the Translate SIL Files program translates all files in the incoming files path, you should NOT store any other files in this directory.

You are responsible for getting the SIL files from the host computer into this directory. The SIL Interpreter software does not provide communications between the PC and the host.

13. Outgoing Files Directory

This parameter defines the drive and directory where the outgoing SIL files reside. The default is C:\SIL\OUTGOING. If you want to store the outgoing SIL files in a different directory, you must first create the directory using DOS and then change this parameter.

The types of outgoing SIL files created by the system are SIL error files from the Translate SIL Files program. Any extracts requested by host are also stored in this directory.

The Host is responsible for deleting any log and output files that are written to this directory.

14. SIL work files directory

This is the directory where the SIL Interpreter's work files will be written. You should probably just let this remain its default value.

15. PC Master directory

This parameter defines the drive and directory where the ISS45 software resides on your system. Usually, this will be C:\PCMASTER\. You are not permitted to change this through the screen. If you have a genuine need to change it, manually edit the file SILPARMS in the SIL directory and change it.

Running Set SIL Parameters

To run the Set SIL Parameters program, follow these steps:

1. **Select Set SIL Parameters from the SIL Host Maintenance Menu.**
2. **Use your cursor movement keys to change any of the fields discussed above.**
3. **Press F2 when you are finished.**

Interpreter Log

Every time the SIL Interpreter runs, it creates a log. This log contains the time the program started and stopped, the command line parameters, and any messages that appeared in the Screen Messages area of the screen. The purpose of the log is to assist you in tracking down any problems that may arise.

If errors appear in the Screen Messages area but they scroll off the screen too quickly for you to read them, you can check this log file to see them.

The log is written to the file ICLSIL.LOG in the SIL directory. This file is reset (deleted) whenever it reaches a length of 500,000 bytes. You can safely delete this log file at any time after you have reviewed or printed it.

Technical Reference

The technical reference is intended for use by host programmers who are generating SIL files to interface with the ISS45.

ISS45 to SIL Field Mapping

The current implementation supports ITEM_DCT and FSPRICE_DCT tables, which correspond to the ISS45 Item and Promotion files.

Item File/ITEM_DCT TABLE

The following is a list of the ISS45 Item File Fields and their corresponding ITEM_DCT column names.

Ordered by ISS45 Item File

ISS45 Item File Field	ITEM_DCT Field	
UPC	F01	
Price	F30	
Tare	F06	
POS Desc	F02	*
Dept	F03	
Price Mult	F31	
Manual Price	F83	
Sale Prohib	F86	
Prohib Qty	F102	
Force Qty	F85	
Weight Item	F82	

Food Stamp	**F79**	
Disct Prohib	**F150**	
Vendor Coup	**F104**	
Store Coup	**F88**	
Mix Match	**F32**	
Long Desc	**F29**	*****
Tax 1	**F81**	
Tax 2	**F96**	
Tax 3	**F97**	
Tax 4	**F98**	
Tax 5	**F99**	
Tax 6	**F100**	
Tax 7	**F101**	
Case Cost	**F151**	
Unit/Case	**F19**	
Family Num	**F16**	
Sub-Dept	**F04**	
Internal Num	**F26**	
Shelf life	**F105**	

Fields ordered by SIL Dictionary

ISS45 Item File Field	**ITEM_DCT Field**	
UPC	**F01**	
POS Desc	**F02**	*****
Dept	**F03**	
Sub-Dept	**F04**	
Tare	**F06**	
Family Num	**F16**	
Unit/Case	**F19**	
Internal Num	**F26**	
Long Desc	**F29**	*****
Price	**F30**	
Price Mult	**F31**	
Mix Match	**F32**	
Food Stamp	**F79**	
Tax 1	**F81**	
Weight Item	**F82**	
Manual Price	**F83**	
Force Qty	**F85**	
Sale Prohib	**F86**	
Store Coup	**F88**	

Tax 2	**F96**
Tax 3	**F97**
Tax 4	**F98**
Tax 5	**F99**
Tax 6	**F100**
Tax 7	**F101**
Prohib Qty	**F102**
Vendor Coup	**F104**
Shelf life	**F105**
Disct Prohib	**F150**
Case Cost	**F151**

Additional Fields available for extract

The following fields are available for extract, but can not be changed.

Price Date	**F35**
Cost Date	**F39**
Prev Week Qty Sales	**F64 ***
Prev Week Qty Sales	**F67 ***
Prev Week Revenue	**F65**

*** See Special Case Mapping.**

Special Case Mapping

F02 and F29 (Description Fields)

When adding items (with ADD or ADDRPL), if a view includes F02 (POS description) but does not also include F29 (Expanded description), the value in F02 will be automatically copied to both the ISS45 POS description and Long Description fields.

F64, F65, F67 (Movement Fields)

The ISS45 supports many more movement fields than the SIL standard. This implementation uses the ISS45 " previous weekly" movement fields. In addition, the prev_week_qty_sales field is mapped to F64 if the item is not a "weighed item" or to F67 if the item is a "weighed item". F65 is always mapped to prev_week_revenue.

Unsupported ISS45 Fields

The following ISS45 fields are not currently in the SIL Dictionary, and thus are not supported through SIL Maintenance.

Tax Flags:

Tax 8

Item Flags:

Persistence flag
Assign EAN in IREF file
Negative entry item
Payment by Super Money
Non-merchandise sales item
Default price
Promotional

Movement Fields

sales date
day quantity sales
day revenue
day discount
day promotion
day quantity promotion
previous day quantity sales
previous day revenue
previous day discount
week quantity sales
week revenue
week discount
month quantity sales
month revenue
month discount
previous month quantity sales
previous month revenue
previous month discount
year quantity sales
year revenue
year discount
z quantity sales
z revenue

z discount
z promotion
z quantity promotion

Other fields:

Center price
Center price date
Return type
Super money pointer
Second price
Second price flags

Promotion File/FSPRICE_DCT

The ISS45 Promotion File maps to the SIL table FSPRICE_DCT. Below is how the fields map. Note that all the fields shown must be included in a SIL row (record) or the row will be rejected and an error generated.

ISS45 Promotion File	**FSPRICE_DCT**
PLU	**F01**
Start Date	**F137**
End Date	**F138**
Price	**F136**

Unattended Operation

The SIL Interpreter program can be operated in unattended mode. This allows you translate SIL files and/or perform extracts without user intervention. The command line parameters are as follows:

iclsil -p<command> <-nouser>

1) iclsil is the name of the SIL interpreter program.

2) You must specify either -ptrans or -pextract. The -ptrans mode translates all SIL files in the incoming files directory. The -pextract mode applies any extracts whose apply date and time are greater than the current date and time.

3) You can specify -nouser with either the -ptrans or the -pextract modes. This option uses default answers when the user would normally have to interact with the program. For the program to be 100% unattended, you need to specify this option.

Appendix A - Error Numbers

The following error numbers are generated by the SIL Interpreter. They will either be displayed on the screen, appear in ICLSIL.LOG, or appear in the "native status" column (A02) of the AUDIT_DCT table in the SIL audit/error log.

This appendix does not list every possible error that can appear in a SIL audit/error log. Many of these errors are of interest only to the programmer who created the SIL file. For a full list of the SIL Error numbers that can appear in an audit/error log, see the SIL Specifications manual.

Unless specifically noted other wise, error numbers below 4000 generally indicate a problem with the SIL file itself. You should alert the person or organization (usually your host) that created the SIL file.

The errors listed below that are marked *Not Serious* are errors that you do not need to worry about. You may want to notify the creator of the SIL file the first time you see them, but they do not indicate a serious problem.

1005	**PURGE BEFORE APPLY DATE**	***Not Serious.*** **The purge date listed is the batch header is earlier than the apply date.**
1009	**BAD FILE NAME**	**If this error occurs, it may indicate that the Outgoing Files Directory in the SIL Parameters file contains a directory name that is not legal on the machine on which the SIL Interpreter is running. Check this parameter. It also may mean the file name in the batch header is invalid.**
2113	**COLUMN NOT SUPPORTED**	***Not Serious.*** **This indicates that one of the columns in the SIL file is not supported by your system. This will happen regularly.**
2114	**SELECT COL NOT SUPPORTED**	***Not Serious.*** **This indicates that one of the columns in the SIL file is not supported by your system. This will happen regularly.**

2115	**TOO MANY ERRORS IN BATCH**	**The number of errors in the batch exceeded the allowable number of errors (indicated in the SIL file). This caused the batch to be rejected.**
2121	**WHERE COL NOT SUPPORTED**	***Not Serious.*** **This indicates that one of the columns in the SIL file is not supported by your system. This will happen regularly.**
3000	**SYNTAX ERROR**	**This is a very serious error. It indicates that the SIL file has a serious mistake in it and the entire file (all batches in the file) must be rejected. Contact the creator of the SIL file. It is their responsibility to correct this problem.**
3100	**REMOTE SYSTEM FAILURE**	**Something on your computer failed while interpreting the file. It may have been something like a disk failure. The SIL audit or error log should have more information on the failure.**
3101	**DELETE BATCH NOT FOUND**	**The SIL file was attempting to delete a previously sent batch, but the batch could not be found. Perhaps it was already applied and deleted.**
4000	**APPLICATION ERROR**	**An unspecified error occurred in the application. The SIL audit/error log should contain more information.**
4100	**MEM ALLOCATION ERROR.**	**An error occurred while allocating memory. Most likely the cause is there is not enough memory available on the machine.**
4101	**YACC STACK OVERFLOW**	**This error should never occur.**
4102	**SIL FILE REJECTED**	**The SIL File was rejected by the SIL Interpreter. Most likely, this indicates that a Syntax Error was in the file. All maintenance in the file was rejected.**
4103	**ERROR READING INFILE**	**An error occurred while reading the SIL file. There may be a problem with the disk drive.**
4104	**TOKEN TOO LARGE**	**A token (word) in the SIL File is larger than 1000 bytes. A SIL file should never have a token this large.**

4105	**SYMBOL TABLE OVERFLOW**	**The SIL file has more symbols (table and column names) than the SIL Engine's internal symbol table can hold.**
4108	**ERROR WRITING AUDIT FILE**	**An error occurred while writing the audit file. Most likely, the disk is full.**
4114	**ERROR OPENING AUDIT FILE**	**An error occurred while opening the audit file. Most likely the disk is full or the configuration variable sil output file path does not contain a legal path name for the system on which the interpreter is running.**
4115	**CANT OPEN SIL FILE**	**The SIL file could not be opened. It is probably the wrong file name.**
4116	**ERROR CLOSING AUDIT FILE**	**An error occurred while closing the audit file. Most likely, the disk is full.**
4150	**QUERY STACK OVERFLOW**	
4151	**QUERY STACK UNDERFLOW**	**Neither of these errors should ever occur.**
4152	**ERROR OPENING QUPARMS**	**If this error occurs during interpreting, the disk may be full.**
4153	**ERROR READING QUPARMS FILE**	**An error occurred while reading the query parameters file. There may be a problem with the disk.**
4154	**ERROR WRITING QUPARMS FILE**	**An error occurred while writing the query parameters file. The disk is probably full.**
4155	**ERROR OPENING RESPONSE FILE**	**This error occurs when the SIL Interpreter is processing an extract.**
4156	**ERROR WRITING RESPONSE FILE**	**An error occurred while writing the query response file. The disk is probably full.**
4500	**NUMERIC OVERFLOW**	**One of the numeric fields in the SIL data was larger than allowed for the ISS45.**
4501	**ERROR OPENING BATCH**	**An error occurred while opening a batch. The disk could be full, or the PC Master Dir parameter could be incorrect.**
4502	**ERROR WRITING BATCH**	**An error occurred while writing a batch. Most likely the disk is full.**

4503	**ERROR CLOSING BATCH**	**An error occurred while closing a batch. Most likely the disk is full.**
4507	**MEMORY ALLOCATION ERROR**	**An error occurred while allocating memory. The SIL Interpreter does not have enough memory. Free some memory by removing unnecessary TSR programs if possible.**
4508	**DRVFILE NOT LOADED**	**You must run SCKINIT before the extract program can function.**
4509	**PLU START FAILED**	**An error occurred while beginning to read the PLU file. It is possible that there are no items in your PLU file.**
4510	**TABLE NOT ITEM DCT**	**The host can only make queries for the table ITEM DCT.**
4511	**NO SIL FILES**	**There are no SIL files in the incoming files directory to be interpreted.**
4512	**ERROR READING SILPARMS**	**An error occurred while reading the SIL parameters file which is named SILPARMS. Most likely this file was accidentally deleted. It is also possible that the SIL software was not installed correctly, or that the ISS45 is not configured correctly for the SIL Interpreter.**
4513	**CANT OPEN NEXTBAT FILE**	**An error occurred while opening the file nextbat.sil. Most likely the disk is full.**
4514	**ERROR OPENING BATCH CONT**	
4515	**ERROR WRITING BATCH CONT**	
4516	**ERROR READING BATCH CONT**	**These errors indicate a problem while manipulating the batch contents file. Possibly the disk is full, or the file system is damaged.**
4517	**CANNOT OPEN REPORT FILE**	**The summary report file could not be opened. Possibly the disk is full.**
4518	**NO EXTRACTS TO APPLY**	**There are no extracts that need to be applied at this point in time.**
4519	**BAD OPERATION**	**The -p parameter from the command line you typed to start ICLSIL.EXE was incorrect.**

4520	**ERROR READING PLU FILE**	**An error occurred while reading the ISS45's PLU file. Note the DRVFILE error number that is displayed. Check this DRVFILE error number in the ISS45 error list.**
4521	**LETTER IN NUMERIC FIELD**	**A letter appeared in a field that the ISS45 requires to be all numbers. Contact your host and inform them of the problem. They will not be able to put letters in this field.**
4522	**MISSING REQ FSPRICE FIELD**	**One of the required fields for the FSPRICE_DCT table (the promotion file on the ISS45 is missing). See the Technical Reference for a full list.**
4600	**INVAL INIT ERR**	**An internal system error. It could be caused by not enough memory.**
4601	**ERROR WRITING SILPARMS**	**An error occurred while writing the SIL parameters file. Possibly the disk is full.**
4602	**CANT EXECUTE**	**An error occurred while the SIL Menu program was attempting to execute another program. Possibly there is not enough memory available.**
4603	**ERROR READING ICL PARMS**	**An error occurred while reading the ISS45 parameter file.**
4604	**CANT CHANGE DIR**	**The SIL Interpreter was unable to change the current working directory.**
4605	**BATCH FORMAT TABLE CORRUPT**	**The batch format table is corrupt. This error should never occur.**
4606	**ERROR PRINTING REPORT**	**An error occurred while issuing the PRINT command. Likely causes - the command PRINT is not in the path, or the printer is offline. Start an MSDOS command line prompt, switch to the \SIL directory, and execute the command PRINT SILPARMS to verify if the PRINT command is working.**

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