

PCC 2000 GENERAL LEDGER SYSTEM

PROGRAM DOCUMENTATION

FEBRUARY 1980

United States and Canada

Pertec Computer Corporation
Computer Systems Division
20630 Nordhoff Street
Chatsworth, California 91311, U.S.A.
Phone (213) 998-1800
TWX (910) 494-2788

International

Pertec Computer Corporation
Business Systems Division
17332 Von Karman Avenue
Irvine, California 92714, U.S.A.
Phone (714) 540-8340
TWX (910) 595-1912

CHANGE RECORD

Revision	Date	Pages Affected
A	2/80	Initial Release

FOREWORD

This document provides detailed program information regarding accounting software for the PCC 2000, Basic 2000-1-H. It makes it easier to customize the programs for specific needs. Although it is written for the PCC 2000 accounting programs, most of it applies to the MITS 300, Basic Accounting Programs.

This document is divided into three sections:

Section 1, System Documentation, describes the data structures, design constraints, and routines that are common to all of the Accounting Software. It is divided into the following subsections:

- System flowchart (program and file names)
- File structures
- Data file layouts and field explanations
- Limitations and restrictions
- Common routines (code breakdown and functional description)

Section 2, Program Documentation, covers fifteen programs that are uniquely defined in the General Ledger System. Each program documentation has three subsections:

- Data files (input or output)
- Functional description (of each program)
- Code breakdown (with functional description)

Chapter 3, Sorted Cross-Reference and Variable Definition, lists and defines all variables used in the programs covered in section 2.

This document is used in conjunction with the PCC 2000 General Ledger Software User's Manual (document number 248099).

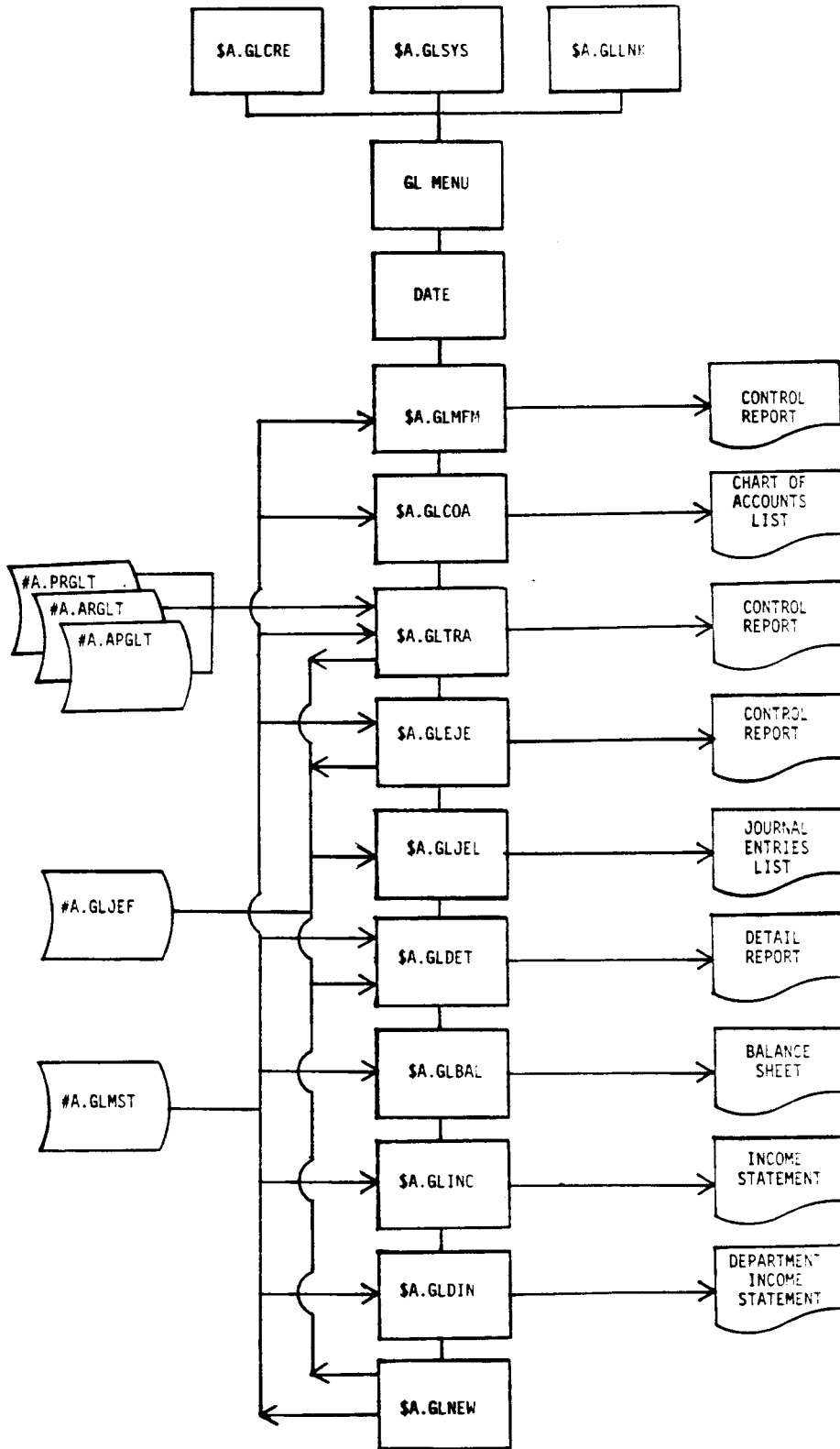
Programming terms in this document are defined in C. J. Sippl's Data Communication Dictionary, copyright 1976, and do not connote interpretations outside the computer industry.

TABLE OF CONTENTS

1	SYSTEM DOCUMENTATION	
1-1	System Flowchart	2
1-2	File Structure	3
1-3	Data File Layouts and Field Explanations	3
1-4	Restrictions and Limitations	6
1-5	Common Routines	6
2	PROGRAMS	
2-1	GL MENU - General Ledger Menu	10
2-2	\$A.GLMFM - Master File Maintenance	10
2-3	\$A.GLCOA - GL Master List	12
2-4	\$A.GLEJE - Enter Journal Entries	12
2-5	\$A.GLJEL - Journal File List	14
2-6	\$A.GLQUE - General Ledger Query	15
2-7	\$A.GLTRA - Accounting Transaction Transfer	15
2-8	\$A.GLNEW - New Month/Year Initialization	16
2-9	\$A.GLDET - Detail Report (Trial Balance)	17
2-10	\$A.GLBAL - Balance Sheet Report	18
2-11	\$A.GLINC - Income Statement Report	19
2-12	\$A.GLDIN - Departmental Income Statement Report	20
2-13	\$A.GLSYS - Parameter File Maintenance	21
2-14	\$A.GLLNK - Linkage File Maintenance	22
2-15	\$A.GLCRE - Data File Creation	23
3	SORTED CROSS-REFERENCE AND VARIABLE DEFINITION	
3-1	GL MENU	26
3-2	\$A.GLMFM	29
3-3	\$A.GLCOA	32
3-4	\$A.GLEJE	34
3-5	\$A.GLJEL	40
3-6	\$A.GLQUE	42
3-7	\$A.GLTRA	46
3-8	\$A.GLNEW	51
3-9	\$A.GLDET	54
3-10	\$A.GLBAL	58
3-11	\$A.GLINC	62
3-12	\$A.GLDIN	67
3-13	\$A.GLLNK	72
3-14	\$A.GLSYS	75
3-15	\$A.GLCRE	78
3-16	GL COMMON 46000-49999	80
3-17	COMMON ROUTINES 50000-59999	84
	APPENDIX Floppy Disk to Hard Disk Conversion	A-1

SECTION 1
SYSTEM DOCUMENTATION

SYSTEM FLOWCHART



1-2 FILE STRUCTURE

The General Ledger System creates and maintains the GL Master File or the Chart of Accounts and the Journal Entry File.

1. The GL Master #A.GLMST contains a record for each GL account. It is maintained in ascending order by the five-digit GL account number. #A.GLMST requires one sector of disk storage per account.
2. The Journal File #A.GLJEF contains one record for each detail journal entry. It is maintained in ascending order by the five-digit GL account number. The sixth digit is packed with a sequentially incremented number to maintain unique keys. #A.GLJEF requires one sector of disk storage per journal entry.

1-3 DATA FILE LAYOUTS AND FIELD EXPLANATIONS

The five data files in the GL System are described below.

SECTION NAME	TYPE	DESCRIPTION
1-3-1 #A.GLMST	ISAM random	GL Master File or Chart of Accounts
1-3-2 #A.GLJEF	ISAM random	Journal Entry File (GL general journal)
1-3-3 #A.GLLNK	sequential	Data disk Linkage File
1-3-4 #A.GLSYS	sequential	System Parameter File
#A.GLHLP	random	Help Message File

This document covers all but the #A.GLHLP File. The Linkage and System Parameter Files are accessed by all programs and are not specifically mentioned.

1-3-1 #A.GLMST - Chart of Accounts File Layout

FIELD NUMBER	FIELD DESCRIPTION	FIELD WIDTH	FIELD NAMES
1	Account Number	6	M1\$
2	Description	24	M2\$
3	Account Type	1	M3\$
4	Balance Sheet Column	1	M4\$
5	Total Level Indicator	1	M5\$
6	Current Amount	4	M6#
7	YTD Amount	4	M7#
	Filler	87	NOT USED
Total		128 bytes = 1 record	

This is an ISAM random file.

1-3-1 #A.GLMST - Chart of Accounts File Layout (continued)

The GL Master File contains a record for each GL account. It is maintained in ascending order by the five-digit GL account number. There are seven fields in the GL Master File record.

- FIELD 1
Account
Number
- Five digits uniquely identify a GL account. The left three are the major account code; the rightmost two, if present, are the subaccount or department code. The range of the major account classifies the account. Assets is the range 10000-19999; Capital/Liability is the range 20000-29999; Income is the range 30000-39999; Expense is the range 40000-99999. Account number 29700 is reserved for current earnings. The program balances the Balance Sheet by writing the difference between Assets and Liabilities in this account.
- FIELD 2
Description
- The account title consists of up to twenty-four alphanumeric characters. The default value is a space.
- FIELD 3
Account
Type
- One alphanumeric character denotes subsidiary accounts. M denotes master accounts, and S denotes subsidiary accounts. Space is the default value. A master account is a level 2 or detail account and is followed by its subsidiary accounts. All but total accounts are printed on the Detail GL Report. Only master accounts are on the Balance Sheet and Income Statements.
- FIELD 4
Balance
Sheet
Column
Code
- One digit, specified on Asset and Capital/Liability accounts, indicates the column the balance appears on the Balance Sheet. The leftmost column is a 1 (default), the center column is a 2, and the rightmost column is a 3. FIELD 4 has no meaning for Income and Expense accounts.
- FIELD 5
Level
Indicator
- One alphanumeric character defines the account record function. A 1 defines the Title Account, a 2 defines the Detail Posting Account, and 3 to 9 define the Total Level Indicators. No defaults are accepted.
- FIELD 6
Current
Amount
- Posting transactions for recent periods with the Detail GL defines the net change as debits minus credits. The maximum handled is \$9,999,999.99, absolute. Zero is the default.
- FIELD 7
YTD
Amount
- The YTD dollar amount is the total debits and credits posted to this account in the year. The maximum handled is \$9,999,999.99, absolute. Zero is the default.

1-3-2 #A.GLJEF Journal Entry File Layout

FIELD NUMBER	FIELD DESCRIPTION	FIELD WIDTH	FIELD NAMES
1	Account Number	6	J1\$
2	Source Code	1	J2\$
3	Reference	8	J3\$
4	Description	24	J5\$
5	Date	4	J6\$
6	Amount	4	J7#
	Filler	81	NOT USED
Total		128 bytes = 1 record	

This is an ISAM random file. The Journal Entries File contains one record for each detail journal entry. Journal entries may be listed in the order they are entered. The system maintains the entries in ascending order by the five-digit account number. Six fields are maintained in the Journal Entries File record.

FIELD 1 Account Number Five digits identify a GL account. Refer to the Master File account number description. No default value is accepted. This field is packed by the 55000 routine to assure a unique key; it is unpacked with the 55100 routine.

FIELD 2 Source Code One code denotes the source of the entry. A denotes Accounts Payable, G denotes General Ledger, R denotes Accounts Receivable, P denotes Payroll, Y denotes Year-to-date only adjustment, and G defaults to General Ledger.

FIELD 3 Reference Eight alphanumeric characters provide an audit trail to the entry's source document. Spaces are defaults.

FIELD 4 Description Twenty-four characters describe this journal entry. Spaces are defaults.

FIELD 5 Date Eight alphanumeric characters identify the month/day/year of the journal entry in the GL System. Format is MM/DD/YY. No defaults are accepted.

FIELD 6 Amount The transaction debit amount or credit amount (preceded by a minus sign) is entered here. Zero is the default value. The maximum amount handled is \$9,999,999.99.

1-3-3 #A.GLLNK Data Disk Linkage File

FIELD NUMBER	FIELD DESCRIPTION	FIELD WIDTH	FIELD NAMES
1	Disk drive number (data)	1	DK% VV\$(1)
2	Current date	8	VD\$ VV\$(2)
3	Menu/Submenu pointer	1	IM
4	Program Selection pointer	1	IP

1-3-4 #A.GLSYS System Parameter File

FIELD NUMBER	FIELD DESCRIPTION	FIELD WIDTH	FIELD NAMES
1	System name	24	VV\$(1)
2	Diskette title/version	24	VV\$(2)
3	Creation date	8	VV\$(3)
4	Disk type code	1	VV\$(4)
5	Company name	24	VV\$(5)
6	Address 1	24	VV\$(6)
7	Address 2	24	VV\$(7)
8	Software configuration code	1	VV\$(8)

1-4 RESTRICTIONS AND LIMITATIONS

- o In large data bases the Detail Report (Trial Balance) is slow.
- o It does not compare present and past year budgets.
- o It does not maintain the past month's data for monthly comparisons.
- o For hardware restrictions refer to the PCC 2000 General Ledger Software User's Manual (pages 1 to 7, document 248099).

1-5 COMMON ROUTINES

1-5-1 Common Routines For the General Ledger System (46000-49999)

LINE NUMBER	FUNCTIONAL DESCRIPTION
46000-46050	Get an account from GL Master (search for KEY\$ key). Return all fields in that account record.
46100-46150	Get the first Journal Entry record for a particular account number. Set up account number to be packed with an increment of 0=P\$ (P\$ is the left padded buffer key K2\$ that is unpacked into J1\$).

1-5-1 Common Routines For the General Ledger System (46000-49999 continued)

LINE NUMBER	DESCRIPTION
46500-46510	Sequentially retrieve GL Master.
46600-46610	Sequentially retrieve Journal File.
47000-47050	Set GL Master comment area.
47100-47150	Set Journal File comment area.
47500-47550	Add a record to GL Master. Create a record of KE\$ in FI% File. Insert string values in random buffer.
47600-47650	Add record to Journal File. Create record of KE\$ in FI% File. Insert string values into random buffer.
48000-48010	Set up the number of files and buffers, and set up ISAM.
48050-48090	Call ISAM file rewind routine.
48100-48150	Open GL Master. Set up file and drive number. Field GL Master buffer.
48200-48250	Open Journal File. Set up file and drive number. Field Journal File buffer. Set next-record counter.
49000-49050	Close GL Master and Journal Files.
49500	Delete from the GL Master.
49600	Delete from the Journal File.

1-5-2 Common Routines For All Accounting Systems (50000-59999, 65520-65529)

LINE NUMBER	DESCRIPTION
50000-50899	Set up program and basic functions, read run-time parameters, and open Help File.
50900-50999	Print Heading.
51000-51099	ALPHANUMERIC STRING INPUT ROUTINE prohibits double quotes and accesses Help File when "?" is responded.
51200-51399	Input digits, one decimal point, a "+" or "-", and verify that input is between lower and upper bounds.
51400-51499	DATE INPUT (MM/DD/YY) inputs month from 1 to 12, day from 1 to 31, and year from 10 to 99.
51600-51799	DOLLARS AND CENTS INPUT ROUTINE edits out "\$", and accepts digits, a decimal point, and a "+" or "-".
51800-51999	YES/NO INPUT ROUTINE adds "(Y/N)" to prompt, and sets Yes Flag to -1 or 0 on a Y or N response, respectively.

1-5-2 Common Routines For All Accounting Systems (continued)

LINE NUMBER	DESCRIPTION
52000-52099	CRT OUTPUT ROUTINE clears screen and prints message.
54000	INVALID ENTRY ERROR ROUTINE
54100-54110	SEVERE SYSTEM ERROR ROUTINE
54200	NUMBER OUT OF RANGE ERROR ROUTINE
54300	INCORRECT DATE ERROR ROUTINE
54500-54599	BASIC ERROR ROUTINE
55000-55099	PACK ROUTINE packs the most significant digits into an unprintable string (P\$=key+4 byte unique increment). It pads the string on the left to its original length. It insures a unique key for an ISAM file entry.
55100-55199	UNPACK ROUTINE unpacks that which was packed in the PACK ROUTINE.
59000-59999	HELP FILE LOOKUP prints Help Message.
65520	SEND ALL OUTPUT TO PRINTER.
65525	SEND ALL OUTPUT TO CRT.
65528	INITIALIZE PRINTER sets logical page length equal to physical page length.
65529	SET PAPER TO TOP OF PAGE.

SECTION 2
PROGRAM DOCUMENTATION

2-1 GL MENU - GENERAL LEDGER MENU

2-1-1 GL MENU Data Files

#A.GLLNK

2-1-2 GL MENU Functional Description

GL MENU provides a selection of programs to run.

2-1-3 GL MENU Code Breakdown

LINE NUMBER DESCRIPTION

00000-00320	Set up program and constants, clear string space, print header, and branch to proper menu display.
00330-01045	Display master activity menu, and prompt for selection. If END, update LNK File and terminate. If UTILITY, GOTO utility menu selection. If RGP, GOTO report menu selection. If DATE, update current date. Run proper program.
01080-01199	Utility selection menu sets up header for hard or floppy disk utility (only floppy is currently used on the PCC 2000). Display menu, input selection, set menu return switch, and update LNK File. Run the utility.
01900-01920	Update current date.
02000-02020	Update LNK File.
02100-02229	Display menu, print menu heading, read menu prompts by parameter, and print menu.
10000-10250	Set data for menu prompts.
19900-19980	Terminate and print screen footing.

2-2 \$A.GLMFM - MASTER FILE MAINTENANCE

2-2-1 \$A.GLMFM Data Files

#A.GLMST

2-2-2 \$A.GLMFM Functional Description

\$A.GLMFM adds, deletes, or changes accounts on the GL Master.

2-2-3 \$A.GLMFM Code Breakdown

LINE NUMBER DESCRIPTION

00000-00930 Set up program, constants, and ISAM; clear string space; open files. Prompt for control report; if desired, print header. Prompt for account layout display; if desired, display account layout.

01120-01220 Program control loop prompts for account add, change, delete, or end. It then branches to proper routine.

01400-01850 Prompt for account number and determine whether it exists on GL Master. Prompt for description, type, column, level, and current and YTD amounts. Prompt for field changes and change fields. Add new record to GL Master.

02025-02890 Prompt for account number of record to change. Determine if account number exists on GL Master. Display current account contents. Prompt for field number of field to change and change field. Prompt for more fields to change; if NO, print record on control report. Update record in the GL Master.

03025-03520 Prompt for account number of record to delete; get record from GL Master. Display current account contents. Determine whether current and YTD amounts are zero; if not, deletion is not possible. Prompt to verify deletion; print data on control report; delete account record.

19900-19999 Terminate, close files, print report footing, advance paper, and return to the menu.

30030-30070 Input account number (subroutine).
 31030-31070 Input description (subroutine).
 32030-32060 Type input (subroutine).
 33030-33080 Input column (subroutine).
 34030-34080 Input level (subroutine).

35030-35070 Input current amount (subroutine).
 36030-36070 Input YTD amount (subroutine).
 37025-37120 Display current record value.
 38040-38530 Print Control Report header (subroutine).
 39020-39070 Print data on Control Report.

2-3 \$A.GLCOA - GL MASTER LIST

2-3-1 \$A.GLCOA Data Files

#A.GLMST

2-3-2 \$A.GLCOA Functional Description

\$A.GLCOA lists all account entries in account number sequence.

2-3-3 \$A.GLCOA Code Breakdown

LINE NUMBER DESCRIPTION

00000-00940 Set up program and constants, clear string space, initialize ISAM, and open files. Prompt and set up for report (to the screen or printer).

01020-01150 Program control loop displays or prints header, reads GL Master, prints GL Master and Journal records, and accumulates current and YTD totals.

19900-19999 Terminate, close files, print report footing, advance page, and return to menu.

30030-39999 Print heading (subroutine).

2-4 \$A.GLEJE - ENTER JOURNAL ENTRIES

2-4-1 \$A.GLEJE Data Files

#A.GLMST, #A.GLJEF

2-4-2 \$A.GLEJE Functional Description

\$A.GLEJE makes entries to the Journal File in regular or speed mode.

2-4-3 \$A.GLEJE Code Breakdown

LINE NUMBER DESCRIPTION

00000-00550 Set up program, constants, and ISAM; clear string space, open files, and prompt for normal or speed input mode.

00600-00920 Accept Journal entries in regular mode. Prompt for control report; if desired, print report header. Prompt for transaction layout display; if desired, display the layout.

2-4-3 \$A.GLEJE Code Breakdown (continued)

LINE NUMBER DESCRIPTION

01400-01700 Input account number, source code, reference, description, date and amount for regular mode.

01810-01900 Prepare input data for Journal File update. Prompt for fields to change; and change them. Pack journal entry account number key. Print the input data on the control report. Update Journal Entry File and accumulate debits and credits.

02200-02999 Prompt for fields to change.

05000-05020 Set up for speed entry. Read in tabbing parameters, display screen header, and open Temporary File.

05035-05420 Input journal entry in speed mode. Print entry number. Set up tab position and input length. Accept input; check for 'END' of input. Accumulate and print total. Write entry in Temporary File. Check for disk-full.

05500-05615 Set up edit, close Temporary File, check amount written, and prompt for a control report. Display a wait for processing message. Print report heading. Open Temporary File.

05620-05810 Input data. Edit account number to be >100 and <99999. Append account number to five digits. Validate account number to GL Master. Verify the date as valid. Edit the reference to be <9 characters, and the description to be <25 characters. If entry valid, pack key and add to Journal File. Print entry and errors on Control Report. Accumulate total debits and credits. Close Temporary File.

05900-05999 Print error on report (subroutine). Print error message and data on Control Report or terminal.

06000-06190 Load tabbing and field length information.

07100-07160 Input data across the screen (subroutine).

07200-07280 Check numerics (subroutine, see common routine 51600).

07400-07440 Is date valid? (subroutine, see common routine 51400).

19900-19999 Terminate, close files, print totals and report footing. Advance the paper. Return to menu.

29010-29090 Print report header (subroutine).

29505-29999 Print data on the report (subroutine).

2-4-3 \$A.GLEJE Code Breakdown (continued)

LINE NUMBER DESCRIPTION

30030-30120 Input and edit regular entry account number. Prompt for
account number and edit it to five digits. Validate ac-
count number against GL Master. Display error messages.

31030-31070 Input and edit regular entry source code. Default to 'G'.

32030-33060 Input and edit regular entry reference code. Prompt for
reference code. Edit input <=8.

33030-33080 These lines are not used.

34030-34080 Input and edit regular entry description. Prompt for
description. Edit input <=24.

35030-35070 Input and edit regular entry date. Prompt for date.
36030-39999 Input and edit regular entry amount. Prompt for amount.

2-5 \$A.GLJEL - JOURNAL FILE LIST

2-5-1 \$A.GLJEL Data Files

#A.GLJEF

2-5-2 \$A.GLJEL Functional Description

\$A.GLJEL lists all journal entries in account number sequence.

2-5-3 \$A.GLJEL Code Breakdown

LINE NUMBER DESCRIPTION

00000-00950 Set up program and constants, clear string space, ini-
tialize ISAM, and open files. Prompt and set up for re-
port to be printed or displayed.

01020-01150 Program control loop prints or displays header, reads
Journal File, unpacks journal key, accumulates debits and
credits, and prints journal record.

19900-19999 Terminate, close files, print report footing, advance the
page, and return to menu.

30005-30075 Print heading (subroutine).

2-6 \$A.GLQUE - GENERAL LEDGER QUERY

2-6-1 \$A.GLQUE Data Files

#A.GLMST, #A.GLJEF

2-6-2 \$A.GLQUE Functional Description

\$A.GLQUE lists all journal entries and the complete status of a selected GL account.

2-6-3 \$A.GLQUE Code Breakdown

LINE NUMBER DESCRIPTION

00000-00525 Set up program and constants, and clear string space.
Prompt and set up to print or display report.

00550-00660 Program control loop prompts for an account to query,
validates the account number against the GL Master, and
sets up a level 1 or 2 header.

00690-00715 Report GL Master data; print header and data. If account
is not a detail account, omit Journal File retrieval.

00717-09060 Match GL Master with Journal File. Pack account number
and get first journal entry. Check if detail journal en-
try was found. Read Journal File sequentially matching
the account number to the GL Master. Print data. Accumu-
late total debits and credits. Print query footing. Save
current amount and set current total to 0. Prompt for
more accounts to query.

19900-19999 Terminate, close files, print report footing, advance the
page and return to menu.

2-7 \$A.GLTRA - ACCOUNTING TRANSACTION TRANSFER

2-7-1 \$A.GLTRA Data Files

#A.GLMST, #A.GLJEF, #A.ARGLT, #A.APGLT, #A.PRGLT

2-7-2 \$A.GLTRA Functional Description

\$A.GLTRA enters transferred journal entries in the Journal Entry File
and prints an Audit Report.

2-7-3 \$A.GLTRA Code Breakdown

LINE NUMBER DESCRIPTION

00000-00500 Set up program and constants, and clear string space.
In floppy disk systems ensure the GL data disk is mounted
in drive 0. Open GL Master and Journal Entry Files.

00600-00640 Set up report. If control report is requested, print its
header.

00690-00790 Check if Parameter File is set to transfer PR, AR, or AP;
if not, set for transfer and print error message. Set up
Transfer File name and perform the transfer.

01000-01090 Set up transfer process. Mount the disk with the proper
Transfer File. Open and field the Transfer File. Get
the first record in the file and verify that this is the
Transfer File.

01096-01200 Data transfer loop gets transfer data record, validates
the account number against the GL Master, prints an error
message if transfer data is wrong, adds transfer record
to the Journal Entry File, and prints it on the report.

01210-01250 Transfer process termination routine updates first record
in the Transfer File and closes the Transfer File.

01500-01560 Set error traps for the transfer process.

01842-01900 Pack transfer data key. Add transfer record to Journal
Entry File. Print transfer record on report. Accumulate
total debits and total credits.

19900-19999 Terminate, close files, print final totals and report
footing, advance to the next page, and return to menu.

29010-29090 Print report headers.
29505-29999 Print data on report.

2-8 \$A.GLNEW - NEW MONTH/YEAR INITIALIZATION

2-8-1 \$A.GLNEW Data Files

#A.GLMST, #A.GLJEF

2-8-2 \$A.GLNEW Functional Description

\$A.GLNEW initializes account amounts for end of month or end of year.
It may also initialize the Journal Entry File.

2-8-3 \$A.GLNEW Code Breakdown

LINE NUMBER DESCRIPTION

00000-01100 Set up program and constants, and clear string space. Initialize ISAM. Prompt to initialize Journal Entry File. Initialize Journal Entry File by killing it and perform an ISAM create. Open GL Master. Prompt for new month or new year.

01120-01240 GL Master initialization reads GL Master, displays the account being worked on. If it's a new year, clear all income and expense accounts. If it's a new month, add current amounts to YTD amounts. Clear current amounts. Update GL Master record. Total the number of accounts on the GL Master.

19900-19999 Terminate, close files, print total number of accounts on GL Master and return to menu.

2-9 \$A.GLDET - DETAIL REPORT (TRIAL BALANCE)

2-9-1 \$A.GLDET Data Files

#A.GLMST, #A.GLJEF

2-9-2 \$A.GLDET Functional Description

\$A.GLDET builds a detail GL Report from the chart of accounts and the journal entries of each account. Total debits and credits are accumulated and printed.

2-9-3 \$A.GLDET Code Breakdown

LINE NUMBER DESCRIPTION

00000-00230 Set up program and constants, clear string space. Set up file names and program header.

00520-00700 Set up report, open files, input report date, set up for printout or display, and print report headers.

00720-00780 Program control logic loop gets first GL Master record (level 2 detail), gets journal record, and compares keys.

00800-00940 When journal key is <= GL Master key, print journal record and accumulate total current amount.

2-9-3 \$GLDET Code Breakdown (continued)

LINE NUMBER DESCRIPTION

00960-01220 When journal key > GL Master key, check journal record count, print totals, add current total to grand totals, update GL Master with new current amount, and get next GL Master record.

19900-19999 Terminate, print final totals and report footing, and return to menu.

20000-20040 Get GL Master record.

20060-20120 Print title account.

20140-20300 Detail account processing omits Master level 2 accounts, and prints detail level 2 account data.

20320-20500 Total account level 3-9 processing is not used since total accounts are not usually on a trial balance.

30000-39999 Print report headers.

2-10 \$A.GLOBAL - BALANCE SHEET REPORT

2-10-1 \$A.GLOBAL Data Files

#A.GLMST

2-10-2 \$A.GLOBAL Functional Description

\$A.GLOBAL builds a Balance Sheet Report from GL Master File accounts.

2-10-3 \$A.GLOBAL Code Breakdown

LINE NUMBER DESCRIPTION

00000-00380 Set up program and constants, and clear string space.

00500-00660 Set up report, open files, input report date, set up for print or display, and print report headers.

00680-00820 Program control logic loop reads GL Master record, checks for EOF or end of capital and liability accounts, negates capital and liability account amounts, sets tabs, and checks for first capital and liability account.

00840-01080 Title account, center the first income and liability accounts, print centered title.

2-10-3 \$A.GLBAL Code Breakdown (continued)

LINE NUMBER	DESCRIPTION
01100-01320	Detail level 2 account totals sub-accounts for any Master account, calculates retained earnings for 29700 account, skips accounts with a zero balance, calculates current total and YTD amounts per account, and accumulates the the balance sheet total.
01340-01520	Print total accounts level 3-9 title and totals. Zero totals for the next accumulation.
01540-01660	Initialize section, print double underline for major footing, store total assets, clear totals for income and expense accounts.
02000-02320	Total subaccounts for a Master account. Read GL Master and check for level 2 detail account, subaccount, and an asset or liability account. Negate asset account amounts. Add totals to Master account total. Print non-zero totals on the balance sheet.
19900-19999	Terminate, print final totals and report footing, and return to menu.

2-11 \$A.GLINC - INCOME STATEMENT REPORT

2-11-1 \$A.GLINC Data Files

#A.GLMST

2-11-2 \$A.GLINC Functional Description

\$A.GLINC prints income statement report from GL Master File accounts.

2-11-3 \$A.GLINC Code Breakdown

LINE NUMBER	DESCRIPTION
00000-00380	Set up program and constants, and clear string space.
00500-01020	Set up report, open files, input report date, set up to print display report, and print report headers.
02030-02517	Program control logic loop reads GL Master record, accumulates current and YTD income accounts, and negates the income account totals.
02520-03040	Read GL Master.

2-11-3 \$A.GLINC Code Breakdown (continued)

LINE NUMBER DESCRIPTION

- 03100-03140 Process title account level 1. Print title, and check for end-of-page processing.

- 03200-03280 Process detail level 2 accounts. Total subaccounts for for Master accounts. Omit accounts with zero balance. Print account name, income amount total as negative, and expense amount total. Check for end-of-page processing. Accumulate current and YTD totals.

- 03503-03790 Process total accounts level 3-9. Print total line. Omit zero totals. Print total name, income totals as negative, and expense totals. Clear total variables.

- 04000-04480 Total subaccounts for a master account. Read GL Master and check for level 2 detail account and subaccount. Accumulate subaccount totals (current and YTD). Omit print-out if total is zero. Print master account name, income account totals as negative, and expense account totals. Clear current and YTD totals for this master account.

- 19900-19999 Terminate, close files, print final totals and report footing, advance to next page, and return to menu.

- 30000-30160 Print report headers.

2-12 \$A.GLDIN - DEPARTMENT INCOME STATEMENT REPORT

2-12-1 \$A.GLDIN Data Files

#A.GLMST

2-12-2 \$A.GLDIN Functional Description

\$A.GLDIN builds an income statement report by department from the income and expense account in the GL Master.

2-12-3 \$A.GLDIN Code Breakdown

LINE NUMBER DESCRIPTION

- 00000-00380 Set up program and constants, and clear string space.

- 00500-01020 Set up report, open files, input report date and selected department number, set up for print or display, and print report headers.

2-12-3 \$A.GLDIN Code Breakdown (continued)

LINE NUMBER DESCRIPTION

02030-02517 Program control logic loop reads GL Master record (first income account), accumulates current and YTD income accounts, and negates the income account totals.

02520-03040 Read GL Master (first income account).

03100-03140 Process and print title account level 1. Check for end-of-page processing.

03200-03280 Process detail level 2 accounts. Total subaccounts for master accounts. Omit accounts with a zero balance. Print account name, income amount total as negative, and expense amount total. Check for end-of-page processing. Accumulate current and YTD totals.

03503-03790 Process total accounts level 3-9. Omit zero totals. Print total underline, total account name, income totals as negative, and expense totals. Clear total variables.

04000-04480 Total subaccounts for a master account. Read GL Master, and check for level 2 detail account and subaccount. Accumulate current and YTD subaccount totals. Omit print-out if total is zero. Print master account name, income account totals as negative, and expense account totals. Clear current and YTD totals for this Master account.

19900-19999 Terminate, close files, print final totals and report footing, advance to next page, and return to menu.

30000-30160 Print report headers.

46050 Check for selected department number.

2-13 \$A.GLSYS - PARAMETER FILE MAINTENANCE

2-13-1 \$A.GLSYS Data Files

#A.GLSYS

2-13-2 \$A.GLSYS Functional Description

\$A.GLSYS creates or updates the GL System Parameter File.

2-13-3 \$A.GLSYS Code Breakdown

LINE NUMBER DESCRIPTION

00000-01160 Set up program and constants, and clear string space.
Print header. Prompt and set up the drive to be mounted.

02000-02010 Program control determines whether to create or update
and branches to the create or update module.

04000-04020 Create the file. Open the file as output. Put the first
two parameters. Close the file.

05000-05660 Set up the file for an update. Open the file as input,
read all the data and close the file. Display the header.
Accept the new input and update data in memory. Open the
file as output and write all the data. Close the file.
Branch to the program termination.

05700-05799 Accept update input (subroutine). Input alphanumerics,
dates, numerics, and YES/NO using the alphanumeric, date,
numeric, and YES/NO input routines, respectively.

05800-05859 Print header (subroutine).

05900-05999 Read data description elements.

19900-19999 Terminate, print report footing, and unload disks.

2-14 \$A.GLLNK - LINKAGE FILE MAINTENANCE

2-14-1 \$A.GLLNK Data Files

#A.GLLNK

2-14-2 \$A.GLLNK Functional Description

\$A.GLLNK creates or updates the GL System Link File.

2-14-3 \$A.GLLNK Code Breakdown

LINE NUMBER DESCRIPTION

00000-01160 Set up program and constants, and clear string space.
Print header. Prompt and set up the drive to be mounted.

02000-02010 Program control determines whether to create or update,
and branches to the create or update module.

2-14-3 \$G.GLLNK Code Breakdown (continued)

LINE NUMBER DESCRIPTION

04000-04030 Create and open the file as output. Put the file. Put the first two parameters. Close the file.

05000-05050 Set up the file for an update. Open the file as input and read all its data. Display the header. Accept new input and update data in memory. Open the file as output and write all the data. Close the file. Branch to the program termination.

05700-05799 Accept update input (subroutine). Input alphanumerics, date, numerics, and YES/NO using the general, date, numeric and YES/NO input routines, respectively.

05800-05859 Print header (subroutine).

05900-05999 Read data description elements.

19900-19999 Terminate, print report footing, and unload disks.

2-15 \$A.GLCRE - DATA FILE CREATION

2-15-1 \$A.GLCRE Data Files

#A.GLMST, #A.GLJEF

2-15-2 \$A.GLCRE Functional Description

\$A.GLCRE creates the ISAM headers for one or both of the GL Files.

2-15-3 \$A.GLCRE Code Breakdown

LINE NUMBER DESCRIPTION

00000-01160 Set up program and constants, and clear string space. Print header. Prompt and set up drive to be mounted.

06000-06310 Program logic (for an ISAM create) prints a warning that existing data will be destroyed, sets up ISAM, creates (a GL Master, Journal File, or both), and prints a completion message.

19900-19999 Terminate, display screen footing, and unload the disks.

SECTION 3

SORTED CROSS-REFERENCE AND VARIABLE DEFINITION

3-1 GL MENU

3-1-1 GL MENU Variable Description

Variable Description

DK%(	Disk drive where programs are located
FS	Field size for input
I	General index
IM	Menu/Submenu pointer
IP	Program selection pointer
M\$	Description of P\$
M\$(	Menu
MM\$	NM-1 (allows menu read)
N1\$	Link File name
N2\$	System File name
N3\$	Link File update program name
N4\$	System File update program name
N5\$	Help File name
NM	Used to read submenu
NM\$	Holds submenu selection
P\$	Holds main menu selection
P\$(	Holds submenu selection
PN\$	Program name
PP\$	Menu headings, holds PN\$; start of a menu subsection
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RA	Flag
RL	See common routines
SC\$	Clear screen code
TP\$	Menu selected

3-1-2 GL MENU - Variable Cross Reference

Variable References

#1	2010
DK%	2010
I	1014, 1056, 1058, 1060, 1086, 1089, 1092, 1105, 1106, 1108, 1110, 1120, 1130, 1135, 1160, 1164, 1166, 1168, 1170, 1180, 2122, 2226
IM	320, 1058, 1062, 1089, 1095, 2010
IP	1058, 1089, 2010
M\$	2118
M\$(	2120, 2122, 2226
MM\$	2116, 2124
N1\$	2000
NM	1056, 1086, 2116, 2120, 2122, 2226
NM\$	2116
P\$	2118
P\$(	1014, 1058, 1089, 2120, 2122, 2226
PN\$	2108, 19950
PP\$	330, 1050, 1080, 2108, 2114
Q	1010, 1054, 1084, 1900
Q\$	1000, 1052, 1082, 1900, 2000, 2010
QT	1010, 1054, 1084, 1900
R\$	1012, 1013, 1014, 1058, 1062, 1089, 1095, 1920
RA	2118, 2120
RL	1910

3-1-2 GL MENU - Variable Cross Reference (continued)

Variable References

SC\$	2108
SET	19960
TP\$	2114
VD\$	1920, 2010
VT\$	1080, 1100

3-2 \$A.GLMFM

3-2-1 \$A.GLMFM Variable Description

Variable Description

A1\$(	Dimensioned area
BELL\$	Terminal bell (disabled on PCC 2000)
C1\$-C7\$	Prompt variables
CE\$	'ENTER'
CH\$	'*** ERROR ***'
CR	Control Report Flag
CV\$	Current value
D#	See common routines
ER%	See common routines
FC	Flag indicating maintenance being performed
FS	See common routines
I	General index
KEY\$	See common routines
LB!	See common routines
LC	Line counter
M1\$	GL Master account number in buffer
M2\$	GL Master description in buffer
M3\$	GL Master account type in buffer
M4\$	GL Master balance sheet column in buffer
M5\$	GL Master total level indicator in buffer
M6#	GL Master current amount
M7#	GL Master YTD amount
MF%	GL Master File Open Flag
N!	See common routines
N1\$-N5\$	Common program and file names
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RL\$	See common routines
SN\$	Report name
UB!	See common routines
X1\$	Set to account number

3-2-2 \$A.GLMFM - Variable Cross Reference

Variable References

A1\$(	330
BELL\$	3515
C1\$	245, 30030, 37050
C2\$	250, 31030, 37060
C3\$	260, 32030, 37070
C4\$	270, 33030, 37080
C5\$	280, 34030, 37090
C6\$	290, 35030, 37100
C7\$	300, 36030, 37110
CE\$	310, 30030, 31030, 32030, 33030, 34030, 35030, 36030
CH\$	39022, 39024, 39025, 39026, 39027, 39033
CR	640, 1842, 2110, 2886, 3230, 19940
CV\$	320, 37050, 37060, 37070, 37080, 37090, 37100, 37110
D#	35040, 35050, 36044, 36050
ER%	1435, 1440, 2070, 3120
FC	1120, 1400, 2025, 2130, 2232, 2885, 3025, 39024, 39025, 39026, 39027, 39050
I	37025, 37115
KEY\$	1450
LB!	2045, 2210, 3060, 30035, 33040, 34040, 35033, 36040
LC	19945, 38530, 39050, 39055
M1\$	1450, 2068, 3100, 30060, 37045, 39030

3-2-2 \$A.GLMFM - Variable Cross Reference (continued)

Variable References

Variable	References
M2\$	31050, 37060, 39035
M3\$	32050, 37070, 39035
M4\$	33070, 37080, 39040
M5\$	34070, 37090, 39040
M6#	3160, 35050, 37100
M7#	3160, 36050, 37110
MF%	530
NI	2240, 2280
PN\$	19950, 38040, 38050
Q	605, 910, 930, 1135, 1815, 2045, 2210, 2805, 3060, 3190, 19970, 30035, 31040, 32040, 33040, 34040, 35033, 36040
Q\$	600, 900, 1133, 1810, 2040, 2200, 2800, 3050, 3180, 19960, 30030, 31030, 32030, 33030, 34030, 35030, 36030
QT	605, 910, 1135, 1815, 2045, 2805, 3060, 3190, 30035, 31040, 32040, 33040, 34040, 35033, 36040
R\$	640, 2063, 2065, 2068, 2220, 3077, 3090, 3095, 3100, 30050, 30055, 30060, 31048, 31050, 32050, 33047, 33070, 34050, 34070, 35040, 36044
RL\$	1160, 1180, 1200, 1210, 3220, 32050
SN\$	38040, 38050
UB!	2045, 2210, 3060, 30035, 33040, 34040, 35033, 36040
X1\$	37045, 37050, 39030, 39033
YES	930, 1830, 2820, 3210

3-3 \$A.GLCOA

3-3-1 \$A.GLCOA Variable Description

Variable Description

ER%	See common routines
FM\$	Format string
FS	See common routines
LC	Line count
LP	Lineprinter
M1\$	GL Master account number in buffer
M2\$	GL Master description in buffer
M3\$	GL Master account type in buffer
M4\$	GL Master balance sheet column in buffer
M5\$	GL Master total level indicator in buffer
M6#	GL Master current amount
M7#	GL Master YTD amount
MF%	See common routines
N1\$-N5\$	Common file and program names
PG	Page counter
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
RC	Record counter
RL\$	See common routines
SC\$	Clear screen code
TC#	Total current out of balance
TY#	Total YTD out of balance

3-3-2 \$A.GLCOA - Variable Cross Reference

Variable References

ER%	1065
FM\$	300, 1115, 1120, 19922, 19923
LC	1130, 1140, 19925, 32040
LP	930, 1022, 1140, 19930
M1\$	1100, 1110
M2\$	1110
M3\$	1110
M4\$	1110
M5\$	1115
M6#	1115, 1123
M7#	1120, 1122
MF%	530
PG	32005, 32010
PN\$	19950
Q	910, 19965
Q\$	900, 19960
QT	910
RC	1125, 19920
RL\$	930, 940
SC\$	1022
TC#	1123, 19923
TY#	1122, 19922

3-4 \$A.GLEJE

3-4-1 \$A.GLEJE Variable Description

Variable Description

BELL\$	Terminal bell (disabled on PCC 2000)
C1\$-C7\$	Prompt variables
CE\$	Prompt message
CH	Character
CR	Control Report Flag
CV\$	Current value
D#	See common routines
DA	See common routines
DG	See common routines
DK%	See common routines
DP	See common routines
EF%	See common routines
ER%	See common routines
FM\$	Format string
FS	See common routines
FT%	First Time Flag
I	General index
I1	General index
J1\$	Journal File account number in buffer
J2\$	Journal File source code in buffer
J3\$	Journal File reference code in buffer
J4\$	Not used
J5\$	Journal File description in buffer
J6\$	Journal File date in buffer
J7#	Journal File amount
J7\$	Journal File amount in buffer
JF%	Journal Entry Open File Flag
JJ	General index
JJ\$	Set to account number entered
LB!	Lower bound
LC	Line counter
LV	Length of value
M1\$	GL Master account number in buffer
M3\$	GL Master account type in buffer
M5\$	GL Master total level indicator in buffer
MF%	GL Master File Open Flag
MO	Month
N!	Numeric value returned

3-4-1 \$A.GLEJE Variable Description (continued)

Variable Description

N1\$-N5\$	Common file and program names
NN	Used to check for numeric value
NV%	Number of values entered
P\$	Used to pack the Journal File key
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RL	See common routines
RL\$	See common routines
S1	Sequence number stored in each account key to retain keys identity (incremented by one after each ISAM write).
S1\$	Sequence counter
SN\$	Report name
SP%	Speed Input Mode Flag
T#	Used to accumulate journal entry amounts
T%	Tab
TB\$(	Default for journal entries
TC#	Total credits
TD#	Total debits
UB!	See common routines
XC(	Temporary array to write #GLTEMP# File
XL(	Temporary array to write #GLTEMP# File
YES	See common routines
YR	Year

3-4-2 \$A.GLEJE - Variable Cross Reference

Variable References

#5	5380, 5630
BELL\$	5420
C1\$	245, 30030
C2\$	250, 31030
C3\$	260, 32030
C4\$	33030
C5\$	280, 34030
C6\$	290, 35030
C7\$	300, 36030
CE\$	310, 30030, 31030, 32030, 33030, 34030, 35030, 36030
CH	7230, 7240, 7250, 7260
CR	630, 1850, 5530, 5600, 5750, 5900, 19915, 19942
CV\$	320
D#	36050
DA	7410, 7415, 7420, 7430
DG	7200, 7240, 7270
DK%	5020, 5390, 5615
DP	7200, 7250
EF%	5360, 5680, 7200, 7250, 7260, 7270, 7280, 7400, 7405, 7410, 7440
ER%	5640, 30080
FM\$	330, 5965, 19920, 19925, 19935, 29540
FS	5120, 5500, 7110

3-4-2 \$A.GLEJE - Variable Cross Reference (continued)

Variable References

Variable	References
FT%	5950
FTIME%	5003
I	5320, 5380, 5390, 5420, 5620, 5800, 6110
I1	5080, 5120, 5200, 5240, 5320, 5350
J1\$	1846, 1847, 5630, 5631, 5632, 5634, 5636, 5638, 5740, 5745, 5955, 5960, 30060, 30070
J2\$	5630, 5960, 29530, 31050
J3\$	5630, 5660, 5960, 29520, 32050
J4\$	33070
J5\$	5630, 5670, 5960, 29510, 34070
J6\$	5630, 5680, 5960, 29510, 35050
J7#	1880, 5631, 5780, 5965, 29540, 36050
J7\$	5630, 5631
JF%	510
JJ	7230, 7260, 7270
JJ\$	5631, 29510, 30050
LB!	2210, 7280, 30040, 36040
LC	19940, 29085, 29550
LV	5120
M1\$	5638, 30070
M3\$	5640, 30080
M5\$	5640, 30080
MF%	510

3-4-2 \$A.GLEJE - Variable Cross Reference (continued)

Variable References

MO	7405, 7420, 7430
NI	2280, 7280
NN	5035, 5040, 5390, 5500, 5620
NV%	5080, 5360, 5380, 6100, 6110
P\$	1846, 1847, 5740, 5745
PN\$	19950, 29010, 29020
Q	530, 610, 910, 920, 1815, 2210, 2810, 5520, 19960, 30040, 31040, 32040, 33040, 34040, 35040, 36040
Q\$	520, 600, 900, 1810, 2200, 2800, 5510, 19960, 30030, 31030, 32030, 33030, 34030, 35030, 36030
QT	610, 910, 1815, 2210, 2810, 30040, 31040, 32040, 33040, 34040, 35040, 36040
R\$	630, 1820, 2230, 2815, 5170, 5200, 5240, 5250, 5360, 5370, 5680, 7100, 7110, 7210, 7220, 7230, 7280, 7400, 7405, 7410, 7415, 7420, 30050, 30055, 30057, 30060, 31043, 32045, 32050, 33045, 33070, 34050, 34070, 35050
RL	7110
RL\$	540, 550, 1830, 1840, 2820, 2830, 7415, 31043, 31050
S1	1842, 5700
S1\$	1842, 1844, 1846, 5700, 5735, 5740
SN\$	29010, 29020
SP%	540, 19917
T#	5370
T%	5050, 5250, 5320

3-4-2 \$A.GLEJE - Variable Cross Reference (continued)

Variable References

TB\$(5200, 5240, 5360, 5380, 6100
TC# 1880, 5780, 19925, 19935
TD# 1880, 5780, 19920, 19935
UBI 2210, 7280, 30040, 36040
XC(5040, 5320, 6100, 6110
XL(5120, 6100, 6110
YES 920, 5530
YR 7420, 7430

3-5 \$A.GLJEL

3-5-1 \$A.GLJEL Variable Description

Variable Description

CR#	Total credits
DB#	Total debits
ER%	See common routines
FM\$	Format string
FS	See common routines
J1\$	Journal File account number in buffer
J2\$	Journal File source code in buffer
J3\$	Journal File reference in buffer
J5\$	Journal File description in buffer
J6\$	Journal File date in buffer
J7#	Journal File amount
JF%	Journal File Open Flag
K2\$	Journal File key
LC	Line counter
LP	Printer Report Flag
N1\$-N5\$	Common file and program names
P\$	Used to unpack the Journal File key
PG	Page counter
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
RC	Total transactions
RL\$	See common routines
SC\$	Clear screen code

3-5-2 \$A.GLJEL - Variable Cross Reference

Variable References

CR#	1105, 19930, 19942
DB#	1105, 19924, 19942
ER%	1070
FM\$	230, 1122
J1\$	1080, 1090, 1110
J2\$	1121
J3\$	1120
J5\$	1110
J6\$	1110
J7#	1105, 1122
JF%	510
K2\$	1075
LC	1145, 1147, 19947, 30065
LP	940, 1020, 1147, 19947
P\$	1075, 1080
PG	30015
PN\$	19950
Q	910, 19960
Q\$	900, 19960
QT	910
RC	1140, 19918
RL\$	940, 950
SC\$	1020

3-6 \$A.GLQUE

3-6-1 \$A.GLQUE Variable Description

Variable Description

CC#	Current credits
CD#	Current debits
ER%	See common routines
FIRST	First Time Flag to print headers
FM\$	Format string
FS	See common routines
I	General index
J1	Journal File account number
J1\$	Journal File account number in buffer
J2\$	Journal File source code in buffer
J3\$	Journal File reference in buffer
J5\$	Journal File description in buffer
J6\$	Journal File date in buffer
J7#	Journal File amount
JC	Journal entry counter
JF%	Journal File Open Flag
LB!	See common routines
LC	Line counter
LP	Printer Report Flag
M1	GL Master account number
M1\$	GL Master account number in buffer
M2\$	GL Master description in buffer
M5	GL Master total level indicator
M5\$	GL Master total level indicator in buffer
M7#	GL Master YTD amount
MF%	GL Master File Open Flag
MM\$	Account number entered by the user
N1\$-N5\$	Common file and program names
P\$	Used to unpack Journal File key
PN\$	rogram title
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RL\$	See common routines
S\$	Heading for the type of account
SC\$	Clear screen code
T#(	Current total

3-6-1 \$A.GLQUE Variable Description (continued)

Variable Description

UB!	See common routines
YES	See common routines

3-6-2 \$A.GLQUE - Variable Cross Reference

Variable References

CC#	880
CD#	880
ER%	620, 720, 723, 760
FIRST	400, 690, 695
FM\$	410, 715, 840, 1000, 1020
I	1100, 1120, 1140
J1	724, 780
J1\$	720
J2\$	820
J3\$	800
J5\$	800
J6\$	800
J7#	840, 880, 900
JC	920, 960
JF%	505
LB!	560
LC	695, 697, 700, 710, 730, 920, 1060, 19935
LP	520, 690, 697, 920, 9000, 19930
M1	724, 780
M1\$	610, 700, 717
M2\$	700
M5	640, 650, 710
M5\$	660

3-6-2 \$A.GLQUE - Variable Cross Reference (continued)

Variable References

M7#	715, 1020
MF%	505
MM\$	570, 580
P\$	717, 720
PN\$	19950
Q	515, 560, 9040, 19960
Q\$	510, 550, 9020, 19960
QT	515
R\$	570, 580, 610
RL\$	520, 525
S\$	640, 650, 660, 700
SC\$	690
T#(	900, 1000, 1020, 1120, 1180
UB!	560
YES	9060

3-7 \$A.GLTRA

3-7-1 \$A.GLTRA Variable Description

Variable Description

CR	Control Report Flag
DD%	Transfer File drive number
DK%	See common routines
DT\$	Name of system to transfer
ER%	See common routines
F1\$	Transfer account number in buffer
F2\$	Transfer source code in buffer
F3\$	Transfer reference in buffer
F5\$	Transfer description in buffer
F6\$	Transfer date in buffer
F7\$	Transfer amount in buffer
F8\$	Transfer postscript in buffer
FM\$	Format string
FNDS\$(	See common routines
FNID#(	See common routines
FNSD!(	See common routines
FS	See common routines
GL\$	Transfer postscript
I	General index
J1\$	Journal File account number in buffer
J2\$	Journal File source code in buffer
J3\$	Journal File reference in buffer
J5\$	Journal File description in buffer
J6\$	Journal File date in buffer
J7#	Journal File amount
JF%	Journal File Open Flag
JJ\$	Journal File account number
LC	Line counter
M1\$	GL Master account number in buffer
M3\$	GL Master account type in buffer
M5\$	GL Master total level indicator in buffer
MF%	GL Master File Open Flag
N1\$-N5\$	Common file and program names
P\$	Used to unpack Journal File key
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines

3-7-1 \$A.GLTRA Variable Description (continued)

Variable Description

R\$	See common routines
S1	Sequence number stored in each account key to retain key's identity. Incremented by one after each ISAM write.
S1\$	Sequence counter
SP%	Flag indicating no processing performed
TC#	Total credits
TD#	Total debits
V\$(	See common routines
VD\$	See common routines
VT\$	See common routines
XN\$	Name of Transfer File
YES	See common routines
ZD\$	Date
ZN	Number of records
ZN\$	Number of records

3-7-2 \$A.GLTRA - Variable Cross Reference

Variable References

#3	1080, 1082, 1100, 1230
CR	630, 640, 1850, 19915, 19942, 29550
DD%	1012, 1040, 1060, 1070
DK%	1012
DT\$	690, 700, 710, 720, 730, 1000, 1001, 1086, 1550, 1560
ER%	1137
F1\$	1080, 1084, 1110, 1210
F2\$	1080, 1110
F3\$	1080, 1110
F5\$	1080, 1110, 1220
F6\$	1080, 1084, 1120, 1210
F7\$	1080, 1120
F8\$	1080, 1084, 1210
FM\$	10, 19920, 19925, 19935, 29540
FNDS\$(	1084, 1120
FNID#(	1120
FNSD!(	1210
GL\$	1084, 1210
I	1096, 1100, 1200
J1\$	1110, 1125, 1135, 1136, 1846, 1847
J2\$	1110, 29530
J3\$	1110, 29520
J5\$	1110, 1128, 1130, 29510

3-7-2 \$A.GLTRA - Variable Cross Reference (continued)

Variable References

J6\$	1120, 29510
J7#	1120, 1128, 1880, 29540
JF%	500
JJ\$	1125, 29510
LC	1160, 19940, 29085, 29550
M1\$	1136
M3\$	1137
M5\$	1137
MF%	500
P\$	1846, 1847
PN\$	19950
Q	150, 610, 1000, 1002, 1088
Q\$	140, 600, 1000, 1002, 1088
QT	610, 1000
R\$	630
S1	1842
S1\$	1842, 1844, 1846
SP%	790, 19917
TC#	1880, 19925, 19935
TD#	1880, 19920, 19935
V\$(	700, 710, 720
VD\$	1220
VT\$	100, 1012, 1032

3-7-2 \$A.GLTRA - Variable Cross Reference (continued)

Variable References

XN\$	700, 710, 720, 1060, 1070
YES	150, 1000, 1005, 1090
ZD\$	1084, 1086, 1210
ZN	1084, 1096
ZN\$	1084, 1210

3-8 \$A.GLNEW

3-8-1 \$A.GLNEW Variable Description

Variable Description

AH	Highest account number allowed for assets
AL	Lowest account number allowed for assets
CI	Highest account number allowed for capital and liability
CL	Lowest account number allowed for capital and liability
DA\$	Date
DISK%	Location of data files
DK%	See common routines
EH	Highest account number allowed for expenses
EL	Lowest account number allowed for expenses
ER%	See common routines
FILE%	See common routines
FS	See common routines
IH	Highest account number allowed for income
IL	Lowest account number allowed for income
M1	GL Master account number
M1\$	GL Master account number in buffer
M6#	GL Master current amount
M7#	GL Master YTD amount
MF%	GL Master File Open Flag
N1\$-N5\$	Common file and program names
NAM\$	Journal File name
NM	Flag indicating a new month
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
RC	Record counter
RE	Retained current earnings account number
RL\$	See common routines
SC\$	Clear screen code
VD\$	See common routines
YES	See common routines

3-8-2 \$A.GLNEW - Variable Cross Reference

Variable References

AH	300
AL	300
CI	310
CL	310
DA\$	580
DISK%	580
DK%	560, 580
EH	330
EL	330
ER%	1140
FILE%	580
IH	320
IL	320, 1160
M1	1160
M1\$	1155
M6#	1160, 1180
M7#	1160
MF%	490
NAM\$	580
NM	1060, 1160
PN\$	19950
Q	520, 1040, 19960
Q\$	500, 1020, 19960

3-8-2 \$A.GLNEW - Variable Cross Reference (continued)

Variable References

QT	520, 1040
RC	1100, 1220, 19920
RE	340
RL\$	1060, 1080
SC\$	1150
VD\$	580
YES	540

3-9 \$A.GLDET

3-9-1 \$A.GLDET Variable Description

Variable Description

BC#	Beginning credits
BD#	Beginning debits
CC#	Current credits
CD#	Current debits
EJ	End of Journal File Flag
ER%	See common routines
FM\$	Format string
FS	See common routines
I	General index
J1	Journal File account number
J2\$	Journal File source code in buffer
J3\$	Journal File reference in buffer
J5\$	Journal File description in buffer
J6\$	Journal File date in buffer
J7#	Journal File amount
JC	Journal entry counter
JF%	Journal File Open Flag
LC	Line counter
LP	Printer Report Flag
M1	GL Master account number
M1\$	GL Master account number in buffer
M2\$	GL Master description in buffer
M3\$	GL Master account type in buffer
M5	GL Master total level indicator
M6#	GL Master current amount
M7#	GL Master YTD amount
MF%	GL Master File Open Flag
MM\$	Account number from GL Master
N1\$-N5\$	Common file and program names
PG	Page counter
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RL\$	See common routines
SC\$	Clear screen code
T#(	Total of all journal entries for a master account

3-9-1 \$A.GLDET Variable Description

Variable Description

TY#(	Total YTD accounts
VD\$	See common routines

3-9-2 \$A.GLDET - Variable Cross Reference

Variable References

BC#	19931, 19935, 19939, 19943, 20220
BD#	19923, 19927, 19939, 19943, 20220
CC#	880, 19933, 19935, 19941, 19943
CD#	880, 19925, 19927, 19941, 19943
EJ	760, 20260
ER%	760, 20020
FM\$	230, 840, 1000, 1020, 19923, 19925, 19927, 19931, 19933, 19935, 19939, 19941, 19943, 20180, 20270, 20340, 20360
I	1100, 1120, 1140, 20240, 20420, 20440, 20460, 20480
J1	780
J2\$	820
J3\$	800
J5\$	800
J6\$	800
J7#	840, 880, 900
JC	920, 960
JF%	520
LC	860, 1000, 1020, 1080, 19945, 20100, 20200, 20280, 20400, 30140
LP	640, 680, 860, 1080, 19945, 20100, 20200, 20280, 20400
M1	780
M1\$	20040
M2\$	20080, 20160, 20320

3-9-2 \$A.GLDET - Variable Cross Reference (continued)

Variable References

M3\$	20150
M5	20060, 20140, 20340, 20360, 20420
M6#	1160
M7#	1020, 20180, 20220, 20240, 20270
MF%	520
MM\$	20040, 20080, 20160, 20320
PG	30020, 30040
PN\$	19950
Q	560, 620, 19960
Q\$	540, 600, 19960
QT	560, 620
R\$	560
RL\$	640, 660
SC\$	680
T#(	900, 1000, 1020, 1120, 1160, 1180, 20340, 20360, 20440
TY#(	20240, 20360, 20460
VD\$	560

3-10 \$A.GLOBAL

3-10-1 \$A.GLOBAL Variable Description

Variable Description

AH	Highest account number allowed for assets
AL	Lowest account number allowed for assets
AT#	Account total
CI	Highest account number allowed for capital and liabilities
CL	Lowest account number allowed for capital and liabilities
EH	Highest account number allowed for expenses
EL	Lowest account number allowed for expenses
ER%	See common routines
FIRST	Flag indicating work on the first page (assets)
FM\$	Format string
FS	See common routines
H1	Account number from GL Master
H2\$	Description from GL Master
H6#	Current amount from GL Master
H7#	YTD amount from GL Master
I	General index
IH	Highest account number allowed for income
IL	Lowest account number allowed for income
LC	Line counter
LP	Printer Report Flag
M1	GL Master account number
M2\$	GL Master description in buffer
M3\$	GL Master account type in buffer
M4	GL Master balance sheet column in buffer
M5	GL Master total level indicator
M6#	GL Master current amount
M7#	GL Master YTD amount
MF%	GL Master File Open Flag
MT#	Total current and YTD amount
N1\$-N5\$	Common file and program names
PC	Position of column (tab)
PG	Page counter
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RE	Retained earnings account number

3-10-1 \$A.GLOBAL Variable Description

Variable Description

RL\$	See common routines
SC\$	Clear screen code
T#(	Total of all journal entries for a master account
VD\$	See common routines

3-10-2 \$A.GLOBAL - Variable Cross Reference

Variable References

AH	300, 740, 820, 1380, 2140
AL	300, 860
AT#	1140, 1620
CI	310, 720, 1380, 2120
CL	310, 860
EH	330
EL	330
ER%	700, 2040, 2060
FIRST	240, 820, 1540
FM\$	230, 1220, 1360, 2260
H1	2000
H2\$	2000, 2260
H6#	2000, 2160, 2220, 2240
H7#	2000, 2160, 2220, 2240
I	940, 960, 1000, 1260, 1280, 1300, 1460, 1480, 1640, 2300
IH	320
IL	320
LC	900, 1060, 1240, 1420, 1440, 1580, 2280, 19940, 30080
LP	600, 640, 900, 1240, 19940
M1	720, 740, 820, 860, 1140, 1380, 2000, 2120, 2140
M2\$	880, 960, 1000, 1200, 1340, 2000
M3\$	1120, 2080

3-10-2 \$A.GLOBAL - Variable Cross Reference (continued)

Variable References

M4	760, 780
M5	840, 1100, 1360, 1460, 2100
M6#	740, 1160, 1180, 2000, 2140, 2160
M7#	740, 1160, 1180, 2000, 2140, 2160
MF%	500
MT#	1140, 1180, 1220, 1280, 2240, 2260, 2300
PC	760, 780, 800, 1200, 1340, 2260
PG	30020, 30040
PN\$	19930
Q	520, 580, 19960
Q\$	510, 560, 19960
QT	520, 580
R\$	520
RE	340, 1140
RL\$	600, 620
SC\$	640
T#(	1140, 1280, 1360, 1480, 1620, 1640, 2300
VD\$	520

3-11 \$A.GLINC

3-11-1 \$A.GLINC Variable Description

Variable Description

AH	Highest account number allowed for assets
AL	Lowest account number allowed for assets
CI	Highest account number allowed for capital and liabilities
CL	Lowest account number allowed for capital and liabilities
CT#	Current total
EH	Highest account number allowed for expenses
EL	Lowest account number allowed for expenses
ER%	See common routines
FM\$	Format string
FP\$	Format string for percents
FS	See common routines
H1	Account number from GL Master
H2\$	Description from GL Master
H6#	Current amount from GL Master
H7#	YTD amount from GL Master
I	General index
IH	Highest account number allowed for income
IL	Lowest account number allowed for income
LC	Line counter
LP	Printer Report Flag
M1	GL Master account number
M1\$	GL Master account number in buffer
M2\$	GL Master description in buffer
M3\$	GL Master account type in buffer
M5	GL Master total level indicator
M6#	GL Master current amount
M7#	GL Master YTD amount
MF%	GL Master File Open Flag
ML	Level indicator
N1\$-N5\$	Common file and program names
PG	Page counter
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RE	Retained earnings account number
RL\$	See common routines

3-11-1 \$A.GLINC Variable Description

Variable Description

SC\$	Clear screen code
TC#(	Total current amounts
TY#(	Total YTD amounts
VD\$	See common routines
YT#	YTD total amount

3-11-2 \$A.GLINC - Variable Cross Reference

Variable References

Variable	References
AH	300
AL	300
CI	310
CL	310
CT#	2180, 2510, 2515, 3207, 3215, 3230, 3520, 3560, 4160, 4220, 4320
EH	330
EL	330
ER%	2050, 2125, 2560, 3040, 4030
FM\$	250, 3212, 3220, 3229, 3240, 3515, 3525, 3550, 3580, 4200, 4240, 4300, 4340
FP\$	255, 3215, 3225, 3230, 3250, 3520, 3530, 3560, 3600, 4220, 4260, 4320, 4360
H1	4000, 4180
H2\$	4000, 4140
H6#	4000, 4080, 4120, 4200, 4220, 4240, 4260, 4300, 4320, 4340, 4360, 4420, 4440
H7#	4000, 4080, 4120, 4240, 4260, 4340, 4360, 4440
I	3257, 3260, 3270, 3720, 3740, 3760, 4400, 4420, 4440
IH	320, 2150, 3210, 3508, 3510, 4180
IL	320, 2030, 2520
LC	3130, 3255, 3620, 4380, 19955, 30130
LP	580, 1010, 3130, 3255, 3620, 4380, 19955
M1	2150, 3210, 3508, 3510, 4000

3-11-2 \$A.GLINC - Variable Cross Reference (continued)

Variable References

M1\$	2030, 2520
M2\$	3120, 3205, 3505, 4000
M3\$	3203, 4040
M5	2160, 3100, 3200, 3504, 3508, 3515, 3520, 3525, 3530, 3550, 3560, 3580, 3600, 3720, 4060
M6#	2180, 2200, 3204, 3212, 3215, 3220, 3225, 3229, 3230, 3240, 3250, 3260, 3270, 4000, 4080
M7#	2200, 3204, 3220, 3225, 3240, 3250, 3270, 4000, 4080
MF%	500
ML	3508
PG	30020, 30040
PN\$	19950
Q	555, 570, 19960
Q\$	552, 560, 19960
QT	555, 570
R\$	555
RE	340
RL\$	580, 590
SC\$	1010
TC#(	270, 3260, 3504, 3515, 3520, 3550, 3560, 3740, 4420
TY#(	270, 3270, 3504, 3525, 3530, 3580, 3600, 3760, 4440
VD\$	555

3-11-2 \$A.GLINC - Variable Cross Reference (continued)

Variable References

YT# 2200, 2510, 2517, 3225, 3250, 3530,
 3600, 4260, 4360

3-12 \$A.GLDIN

3-12 \$A.GLDIN Variable Description

Variable Description

AH	Highest account number allowed for assets
AL	Lowest account number allowed for assets
CI	Highest account number allowed for capital and liabilities
CL	Lowest account number allowed for capital and liabilities
CT#	Current total
DP\$	Department number to report
EH	Highest account number allowed for expenses
EL	Lowest account number allowed for expenses
ER%	See common routines
FM\$	Format string
FP\$	Format string for percents
FS	See common routines
H1	Account number from GL Master
H2\$	Description from GL Master
H6#	Current amount from GL Master
H7#	YTD amount from GL Master
I	General index
IH	Highest account number allowed for income
IL	Lowest account number allowed for income
LB!	See common routines
LC	Line counter
LP	Printer Report Flag
M1	GL Master account number
M1\$	GL Master account number in buffer
M2\$	GL Master description in buffer
M3\$	GL Master account type in buffer
M5	GL Master total level indicator
M6#	GL Master current amount
M7#	GL Master YTD amount
MF%	GL Master File Open Flag
ML	Level indicator
N1\$-N5\$	Common file and program names
PG	Page counter
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines

3-12-1 \$A.GLDIN Variable Description

Variable Description

R\$	See common routines
RE	Retained earnings account number
RL\$	See common routines
SC\$	Clear screen code
TC#(	Total current amounts
TY#(	Total YTD amounts
UB!	See common routines
VD\$	See common routines
YT#	YTD total amount

3-12-2 \$A.GLDIN - Variable Cross Reference

Variable References

AH	300
AL	300
CI	310
CL	310
CT#	2180, 2510, 2515, 3207, 3215, 3230, 3520, 3560, 4160, 4220, 4320
DP\$	550, 30040
EH	330
EL	330
ER%	2050, 2125, 2560, 3040, 4030
FM\$	250, 3212, 3220, 3229, 3240, 3515, 3525, 3550, 3580, 4200, 4240, 4300, 4340
FP\$	255, 3215, 3225, 3230, 3250, 3520, 3530, 3560, 3600, 4220, 4260, 4320, 4360
H1	4000, 4180
H2\$	4000, 4140
H6#	4000, 4080, 4120, 4200, 4220, 4240, 4260, 4300, 4320, 4340, 4360, 4420, 4440
H7#	4000, 4080, 4120, 4240, 4260, 4340, 4360, 4440
I	3257, 3260, 3270, 3720, 3740, 3760, 4400, 4420, 4440
IH	320, 2150, 3210, 3510, 4180
IL	320, 2030, 2520
LB!	525
LC	3130, 3255, 3620, 4380, 19955, 30130

3-12-2 \$A.GLDIN - Variable Cross Reference (continued)

Variable References

LP	580, 1010, 3130, 3255, 3620, 4380, 19955
M1	2150, 3210, 3508, 3510, 4000
M1\$	2030, 2520
M2\$	3120, 3205, 3505, 4000
M3\$	3203, 4040
M5	2160, 3100, 3200, 3503, 3508, 3515, 3520, 3525, 3530, 3550, 3560, 3580, 3600, 3720, 4060
M6#	2180, 2200, 3204, 3212, 3215, 3220, 3225, 3229, 3230, 3240, 3250, 3260, 3270, 4000, 4080
M7#	2200, 3204, 3220, 3225, 3240, 3250, 3270, 4000, 4080
MF%	500
ML	3508
PG	30020, 30040
PN\$	19950
Q	515, 525, 570, 19960
Q\$	510, 520, 560, 19960
QT	515, 525, 570
R\$	515, 530, 535, 550
RE	340
RL\$	580, 590
SC\$	1010
TC#(	270, 3260, 3503, 3515, 3520, 3550, 3560, 3740, 4420

3-12-2 \$A.GLDIN - Variable Cross Reference (continued)

Variable References

TY#(	270, 3270, 3503, 3525, 3530, 3580, 3600, 3760, 4440
UB!	525
VD\$	515
YT#	2200, 2510, 2517, 3225, 3250, 3530, 3600, 4260, 4360

3-13 \$A.GLLNK

3-13-1 \$A.GLLNK Variable Description

Variable Description

D%	Disk drive number
FC%	File Create Flag
FS	Field size
I	General index
IC\$(	Array holding the type of Parameter File entries
II	General index
IL(	Array holding the length of the Parameter File entries
IM	Menu to return to
IP	Indicates return from program
IT\$(	Array holding the name of the Parameter File entries
LB!	Lower bound
N!	See common routines
N1\$	Link File name
N2\$	System File name
N3\$	Link File update program name
N4\$	System File update program name
N5\$	Help File name
PN\$	Program name
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RI	See common routines
RL\$	See common routines
TE	Number of elements
UB!	Upper bound
VV\$(	Array holding the System Parameter File entries
W	Width of CRT display
YES	See common routines

3-13-2 \$A.GLLNK - Variable Cross Reference

Variable References

#1	4020, 4030, 5010, 5040, 5050
BT	5700
D%	1110, 1140, 1160, 4010, 5010, 5030
FC%	4010, 5722, 5732, 5743, 5752
FS	95
I	5020, 5650, 5715, 5720, 5724, 5730, 5740, 5742, 5750, 5986, 5990
IC\$(	5720, 5730, 5740, 5750, 5985, 5990
II	4020, 5010, 5040
IL(	5724, 5985, 5990
IM	100, 4030, 5050
IP	100, 4030, 5050
IT\$(	5715, 5985, 5990
LB!	1110, 5742
NI	1110
N1\$	4010, 5010, 5030
PN\$	19900
Q	1100, 1120, 1150, 2010, 5700
Q\$	1100, 1120, 1150, 2010, 4010, 4020, 4030, 5030, 5040, 5050, 5715
QT	1100, 1120, 1150, 2010, 5700
R\$	5650, 5722, 5724, 5732, 5743, 5752, 5753, 5754
RI	5700, 5799
RL\$	2010

3-13-2 \$A.GLLNK - Variable Cross Reference (continued)

Variable References

TE	4020, 5010, 5020, 5040, 5980, 5985, 5986, 5990
UB!	1110, 5742
VV\$(	4020, 5010, 5040, 5650, 5715, 5985, 5986
W	95
WIDTH	95
YES	1130, 1150

3-14 \$A.GLSYS

3-14-1 \$A.GLSYS Variable Description

Variable Description

D%	Disk drive number
FC%	File Create Flag
FS	Field size
I	General index
IC\$(	Array to hold the type of the Parameter File entries
II	General index
IL(	Array to hold the length of the Parameter File entries
IT\$(	Array to hold the name of the Parameter File entries
LB!	Lower Bound
N!	See common routines
N\$	Holds first entry in the System File
N1\$	Link File name
N2\$	System File name
N3\$	Link File update program name
N4\$	System File update program name
N5\$	Help File name
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
RI	See common routines
RL\$	See common routines
TE	Number of elements
UB!	Upper bound
VV\$(	Array to hold the System Parameter File entries
W	Width of CRT display
YES	See common routines

3-14-2 \$A.GLSYS - Variable Cross Reference

Variable References

#1	4010, 4020, 5010, 5030, 5040
BT	5700
D%	1110, 1140, 1160, 4010, 5010, 5030
FC%	4010, 5722, 5732, 5743, 5752
FS	95
I	5020, 5650, 5715, 5720, 5724, 5730, 5740, 5750, 5986, 5990
IC\$(	5720, 5730, 5740, 5750, 5985, 5990
II	4020, 5010, 5040
IL(	5724, 5985, 5990
IT\$(	5715, 5985, 5990
LB!	1110
N!	1110
N\$	5010
N2\$	4010, 5010, 5030
PN\$	19900
Q	1100, 1120, 1150, 2010, 5700
Q\$	1100, 1120, 1150, 2010, 4010, 4020, 5030, 5040, 5715
QT	1100, 1120, 1150, 2010, 5700
R\$	5650, 5722, 5724, 5732, 5743, 5752, 5753, 5754
RI	5700, 5799
RL\$	2010
TE	4010, 4020, 5010, 5020, 5030, 5040, 5980, 5985, 5986, 5990

3-14-2 \$A.GLSYS - Variable Cross Reference (continued)

Variable References

UBI	1110
VV\$(	4020, 5010, 5040, 5650, 5715, 5985, 5986
W	95
WIDTH	95
YES	1130, 1150

3-15 \$A.GLCRE

3-15 \$A.GLCRE Variable Description

Variable Description

D%	Used to store the drive number
DA\$	Creation date
DI%	Disk drive number
FI%	File number
FS	Field size
LB!	Lower bound
N!	See common routines
N1\$	Link File name
N2\$	System File name
N3\$	Link File update program name
N4\$	System File update program name
N5\$	Help File name
NAM\$	ISAM data file names
NB%	Number of buffers
NF%	Number of files
PN\$	Program title
Q	See common routines
Q\$	See common routines
QT	See common routines
R\$	See common routines
UE!	Upper bound
VD\$	System date
YES	See common routines

3-15-2 \$A.GLCRE - Variable Cross Reference

Variable References

D%	1110, 1140, 1160, 6015, 6020
DA\$	6020
DI%	6020
FI%	6040, 6050
LB!	1110
NI	1110
NAM\$	6040, 6050
NB%	6025
NF%	6025
PN\$	19900
Q	1100, 1120, 1150, 6030
Q\$	1100, 1120, 1150, 6016, 6028
QT	1100, 1120, 1150
R\$	6030, 6040, 6050, 6060
UB!	1110
VD\$	6020
YES	1130, 1150, 6017

3-16 GL COMMON 46000-46999

3-16-1 GL Common 46000-46999 Variable Description

Variable Description

DI%	Main data disk drive
DK%	Main data disk drive
ER%	Error indicator
F1\$(	GL Master buffer array
F2\$(	Journal File buffer array
FI%	File number
FNDI\$(	Function to pack a double precision number into four bytes
FNDS\$(	Function to format an integer to print the date
FNID#(	Function to unpack the four bytes packed by FNDI\$(
FNSD!(	Function to arrange a six byte date as YYMMDD
FO%	File Open Flag
J1	Journal File account number
J1\$(	Journal File account number in buffer
J2\$(	Journal File source code in buffer
J3\$(	Journal File reference in buffer
J5\$(	Journal File description in buffer
J6\$(	Journal File date in buffer
J7#	Journal File amount
JF%	Journal File Flag
K1\$(	Used to set up ISAM key
K2\$(	Used to set up ISAM key
KEY\$(	ISAM key
M1	GL Master account number
M1\$(	GL Master account number in buffer
M2\$(	GL Master description in buffer
M3\$(	GL Master account type in buffer
M4	GL Master balance sheet column number
M4\$(	GL Master balance sheet column number in buffer
M5	GL Master total level indicator
M5\$(	GL Master total level indicator in buffer
M6#	GL Master current amount
M7#	GL Master YTD amount
MF%	GL Master File Flag
NA\$(	File name (used for ISAM)
NB%	Number of buffers (used for ISAM)
NF%	Number of files (used for ISAM)
NREC\$(	Next record counter
P\$(	Used to pack the Journal File key (see paragraph 1-5-1)

3-16-1 GL Common 46000-46999 Variable Description (continued)

Variable Description

S1	Next record counter
TEMP\$	Dummy field variable

3-16-2 GL46000 - Variable Cross Reference

Variable References

#1	48130, 48140
#2	48230, 48240
DI%	48100, 48200
DK%	48100, 48200
ER%	46000, 46100, 46510, 46610, 47000, 47100, 47500, 47600, 48050, 48060, 48110, 49010, 49020, 49500, 49600
F1\$(	46020, 46030, 47510, 47520, 48120, 48130, 48140
F2\$(	46120, 46125, 47610, 47620, 48220, 48230, 48240
FI%	48050, 48060, 48100, 48200
FILE%	46000, 46100, 46500, 46600, 47000, 47100, 47500, 47600, 49010, 49020, 49500, 49600
FNDI\$(	47520, 47620
FNDS\$(	46125
FNID#(	46030, 46125
FNSD!(	47620
FO%	48145, 48247, 49000
J1	46112
J1\$(	46100, 46112, 47100, 47600, 47610, 49600
J2\$(	46120, 47610
J3\$(	46120, 47610
J5\$(	46125, 47620
J6\$(	46125, 47620
J7#	46125, 47620

3-16-2 GL46000 - Variable Cross Reference (continued)

Variable References

JF%	48060, 49020
K1\$	46010, 47510, 48130
K2\$	46110, 47610, 48230
KEY\$	46000, 46100, 47000, 47100, 47500, 47600, 49500, 49600
M1	46010
M1\$	46000, 46010, 47000, 47500, 47510, 49500
M2\$	46020, 47510
M3\$	46020, 47510
M4	46025
M4\$	46020, 46025, 47510
M5	46025
M5\$	46020, 46025, 47520
M6#	46030, 47520
M7#	46030, 47520
MF%	48050, 49010
NA\$	48100, 48200
NB%	48000
NF%	48000
NREC(	48245
P\$	46110, 46112
S1	48245
TEMP\$	48140, 48240

3-17 COMMON ROUTINES 50000-59999

3-17-1 Common Routines 50000-59999 Variable Description

Variable Description

BE\$	Bell on the terminal
CH	Input character
D!	Valid date
D#	Dummy variable used to define functions
DA	Input date (day)
DG	Flag for numeric input check
DK%	Main data disk drive
DP	Flag for decimal point input
E\$	End
ER%	Error indication if non-zero
FNDI\$(	Function to pack double precision number into four bytes
FNDS\$(	Function to divide an integer number into a date format
FNID#(	Function to unpack the four byte string packed by FNDI\$(
FNSD!(	Function to arrange a date into YYMMDD format
FS	Field size
HB\$	Used to print help message
HF%	Help File number
HJ	Number of records in Help File
HK	Temporary variable for binary search
HL	Used to determine how to break help message into sentences
HN\$(	Fielded variables for help number
HN(	Array for help number
HP	Index used in the binary search for HN
HS(	Starting record number
HS\$(	Fielded variable for HS(
I	General index
I\$	Used as a dummy variable to define functions
II	General index
IM	Menu/Submenu pointer
IP	Program selection pointer
JJ	General index
LB!	Lower bound
LC	Line count
LP	Printer Copy Flag
MO	Date input (month)
N!	Returned value from numeric input routine
N#	Used for rounding in the string pack function
N\$	Input value for the SYS File

3-17-1 Common Routines 50000-59999 Variable Description (continued)

Variable Description

N1\$-N5\$	Common file and program names
P\$	Used to pack Journal File key (key + four byte increment)
P1	Length of key to be packed
P2	Even number function of P1
P2\$	Used to build the packed string value
P3	General index
P3\$	Used to check the leftmost character
P4	Used to pack the Journal File key
P5	Used to pack the Journal File key
PN\$	Program title
Q	Query prompt message number
Q\$	Query prompt message string
QT	Query tab space count
R\$	String input after the prompt
RI	Linefeed input specifier
RL	Length of string input
RL\$	Holds the leftmost characters in R\$
S\$	Dummy variable used to define functions
SC\$	Screen clear codes
T\$	HS and HP converted to a string
UB!	Upper bound
V\$(	Array to hold system elements
VC\$	System company name
VD\$	System date
VO\$	Key value
VS\$	System name
VT\$	Disk type
W	Terminal width
YES	Flag returned from YES/NO input routine
YR	Date input (year)

3-17-2 50000 - Variable Cross Reference

Variable References

#1	50002, 50004, 50020
#HF%	59120, 59210, 59230, 59240
BE\$	50000, 50200, 50300
BELL\$	54000, 54100, 54200, 54300, 54530
CH	51240, 51250, 51260, 51270, 51660, 51670, 51680, 51690
DI	50175
D#	50160, 51655, 51710
DA	51400, 51424, 51426, 51430, 51440
DG	51200, 51250, 51280, 51600, 51670, 51700
DK%	50002, 50004
DP	51200, 51260, 51600, 51680
E\$	51200
ER%	54050, 54100
FNDI\$(	50160
FNDS\$(	50175
FNID#(	50165
FNSDI(	50170
FS	51010
HB\$	59120, 59210
HF%	59200
HJ	59000, 59080, 59090, 59110, 59120, 59240, 59250
HK	59000, 59080, 59100, 59120, 59150, 59230, 59240, 59250

3-17-2 50000 - Variable Cross Reference (continued)

Variable References

HL	59130, 59140
HN\$	59250
HN\$(	59200, 59230, 59250
HN(	59090, 59100, 59200, 59250
HP	59080, 59090, 59100, 59110, 59240, 59250
HS	59110, 59120
HS\$	59250
HS\$(	59200, 59230, 59250
HS(	59000, 59110, 59200, 59250
I	50020, 54530
I\$	50165
II	51030
IM	50002
IP	50002
JJ	51240, 51270, 51280, 51640, 51660, 51690, 51700
LB!	51290
LC	50920
LP	50900
MO	51400, 51422, 51430, 51440
NI	51200, 51290
N#	50160, 50165
N\$	50004, 50020
N1\$	50000

Variable References

N2\$	50004
N3\$	50210
N4\$	50310
N5\$	59200
P\$	50002, 55000, 55040, 55100, 55120
P1	55000, 55008, 55010, 55040, 55100, 55110, 55120
P1\$	55000, 55005, 55008, 55010, 55020, 55100, 55110
P2	55010, 55020, 55040, 55110
P2\$	55000, 55030, 55040, 55100, 55110, 55120
P3	55020, 55110
P3\$	55005
P4	55020, 55030
P5	55020, 55030
PN\$	50910
Q	51070, 59080, 59090, 59100
Q\$	51000, 51800
QT	51000
R\$	51010, 51015, 51020, 51030, 51200, 51220, 51230, 51240, 51290, 51400, 51420, 51422, 51424, 51426, 51430, 51620, 51640, 51650, 51655, 51660, 51710
RI	51010
RL	51015, 51030
RL\$	51015, 51020, 51426, 51805, 51810

3-17-2 50000 - Variable Cross Reference (continued)

Variable References

S\$	50170
SC\$	50055, 50900, 52000
STRING\$(	55008, 55040, 55120
T\$	59110, 59120, 59130, 59140, 59230
UB!	51290
V\$(	50020, 50050
VC\$	50050, 50905
VD\$	50002, 50910
VO\$	52010
VS\$	50050, 50905
VT\$	50050
W	50050, 50905, 50910
WIDTH	50050
YES	51805
YR	51400, 51430, 51440

APPENDIX A

FLOPPY DISK TO HARD DISK CONVERSION

The following procedure converts accounting packages from a floppy disk operating system to a hard disk operating system on the PCC 2000. A hard disk drive has up to four platters as in the D3462 hard disk drive which has three fixed platters and one removable platter. A unit consists of up to three platters. In a D3462 disk drive, three fixed platters are in one unit and one removable platter is another unit. The two storage systems are compared below.

Floppy Disk Operating System	Hard Disk Operating System
The maximum non-volatile storage on two floppy disk drives is 1M byte.	The maximum non-volatile storage on two floppy disk drives and four hard disk drives is 81M bytes.
The operating system occupies 33.8K RAM bytes, leaving 30.2K RAM bytes for user programs.	An operating system, with two floppy disk and two hard disk drives, occupies 35.3K RAM bytes, leaving 29.41K RAM bytes for user programs.*
Each floppy drive requires 568 RAM bytes at system initialization.	Each drive requires 617 RAM bytes at system initialization.

*The maximum hard disk system, consisting of two floppy disk drives and four hard disk drives, occupies 36.5K RAM bytes.

Convert a floppy disk operating system to a hard disk operating system using the following steps.

1. Copy the original distribution diskettes before using them.
2. Initialize and format the hard disk units using the utilities floppy diskette. Refer to the PCC 2000 Utility Program Specification under INIT.
3. Load the Hard Disk Operating System from the floppy diskette in drive 0. Configure the system for the hardware available and save the system image on the diskette in drive 0.

4. Start the system, insert the source diskette for the accounting system in disk drive number one, and mount all units. Individually, load each source diskette program and save it on the unit designated for the accounting system. This tedious operation will be improved using the BACKUP program that is being developed for the utility diskette.
5. Transfer all random files using the source diskette program \$U.COPYR. Transfer all sequential files using the source diskette program \$U.COPYS.
6. Modify all programs for the new system unit. Check the main menu program thoroughly and modify all its drive specification statements. Modify all other programs using a merge file since these programs have similar modifications.
7. Correct the data file drive number using the linkage program \$A.XXLNK. Correct the disk type using the system parameter program \$A.XSYS.
8. Correct the ISAM routine line number 60610 to "IFVT\$="H"THENOD(0)=39062
ELSEIFVT\$="F"THENOD(0)=3476"
9. Test the system thoroughly with a large data base if it is available.

The size of the hard disk operating system may cause an error 7 (out of memory) or an error 14 (out of string space). Run the tests above on any memory or string space sensitive programs. If error 7 occurs, modify the DIMENSION statement with a smaller number. If error 14 occurs, modify the CLEAR statement with a larger number; and if necessary, modify the DIMENSION statement with a smaller number.

10. The "UTILITY" routines FORMAT, COPYH, and DCOPY are not on the diskettes distributed with the PCC 2000 applications software, so the hard disk utilities diskette must be used to initialize, format, and copy the hard disks. Refer to the PCC 2000 UTILITY PROGRAM SPECIFICATION document for the detailed description of the utility programs.