

COMPUTER
TECHNOLOGY

DR. JOHN MANOWIS

COMPUTER TECHNOLOGY

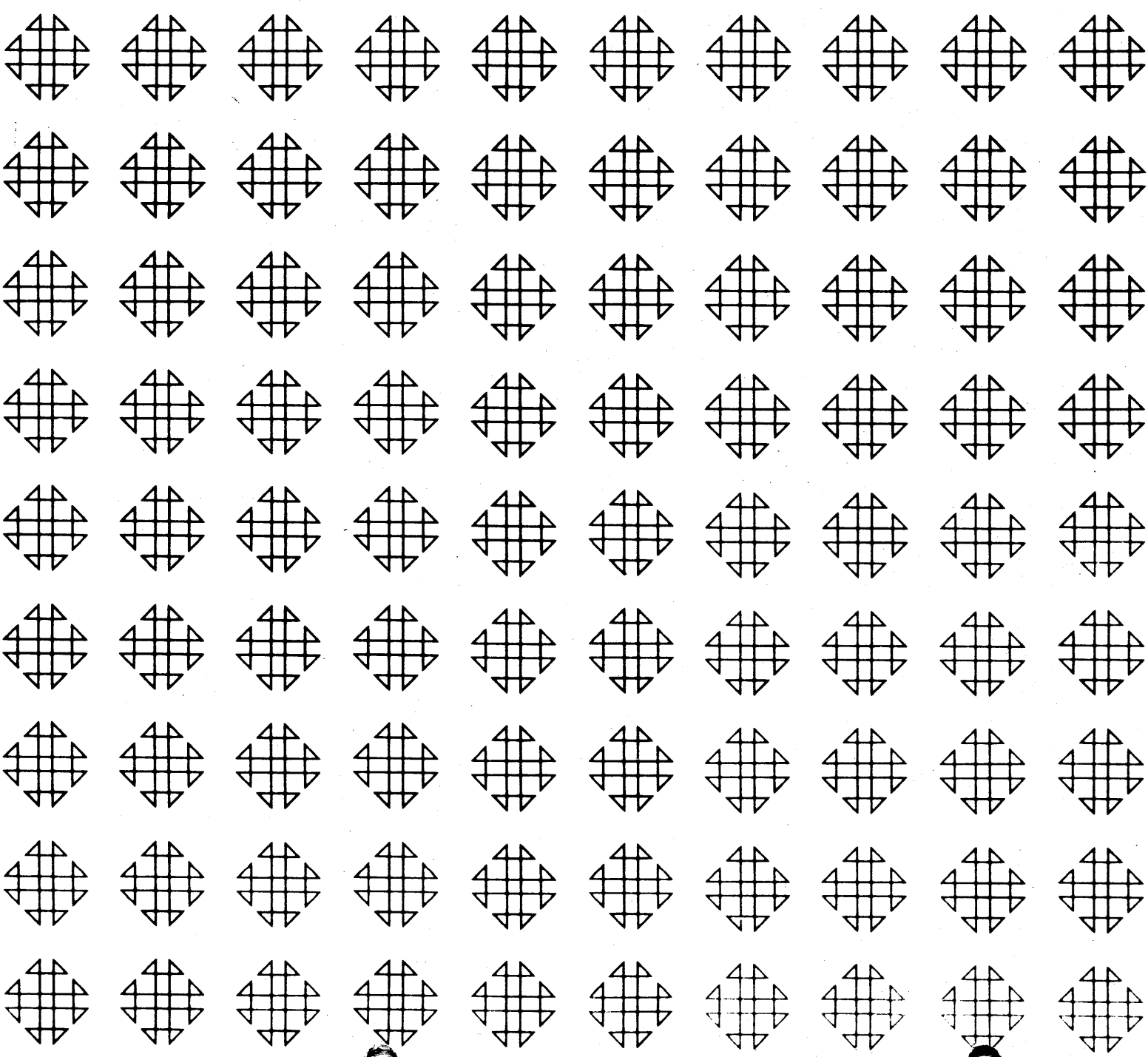
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1620 GENERAL PROGRAM LIBRARY

WISAL Processor for Computer Accounting Case 2.0.058



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COMMON USERS GROUP PROGRAM REVIEW AND EVALUATION
(fill out in typewriter, ink or pencil)

Program No. _____

Date _____

Program Name: _____

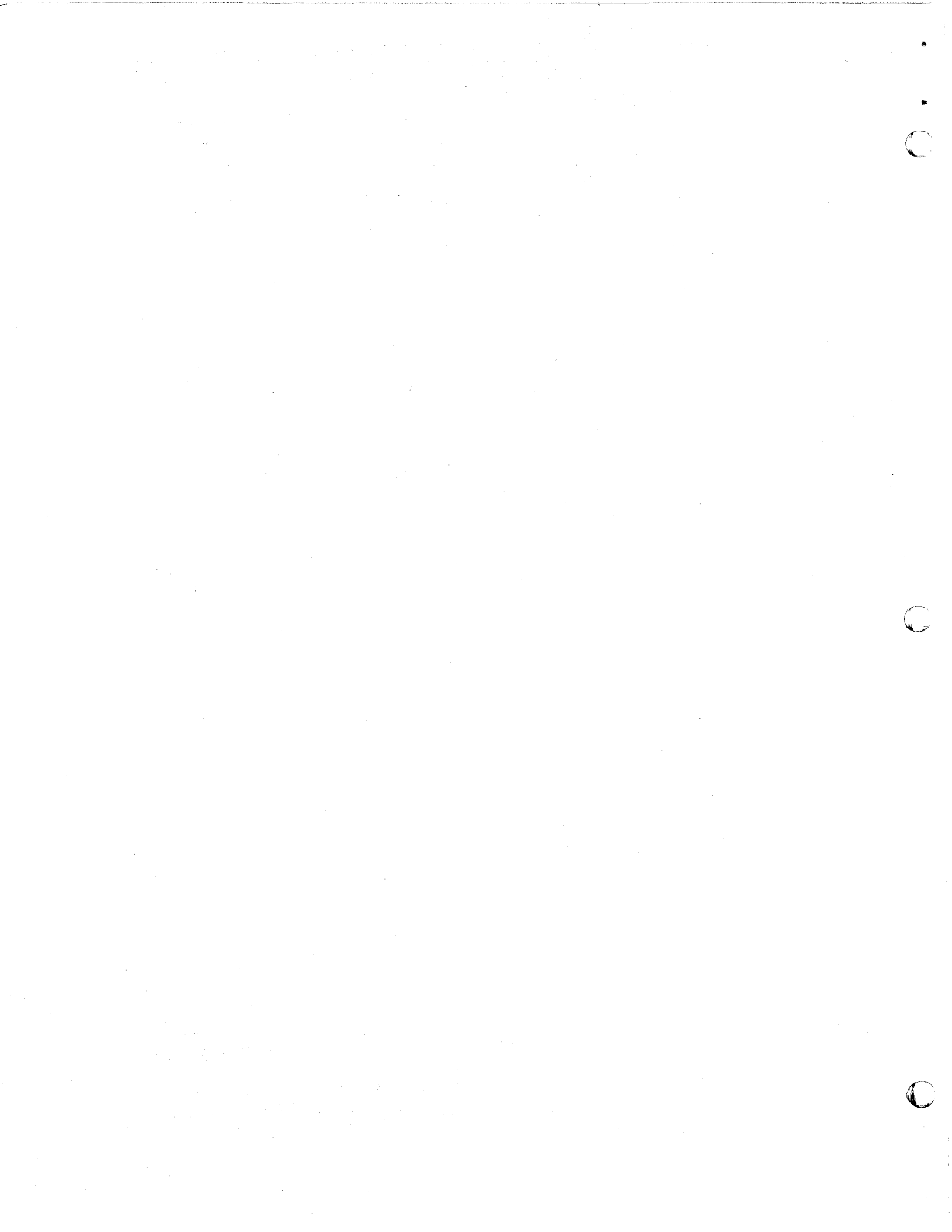
1. Does the abstract adequately describe what the program is and what it does? Yes ___ No ___
Comment _____
2. Does the program do what the abstract says? Yes ___ No ___
Comment _____
3. Is the description clear, understandable, and adequate? Yes ___ No ___
Comment _____
4. Are the Operating Instructions understandable and in sufficient detail? Yes ___ No ___
Comment _____
Are the Sense Switch options adequately described (if applicable)? Yes ___ No ___
Are the mnemonic labels identified or sufficiently understandable? Yes ___ No ___
Comment _____
5. Does the source program compile satisfactorily (if applicable)? Yes ___ No ___
Comment _____
6. Does the object program run satisfactorily? Yes ___ No ___
Comment _____
7. Number of test cases run _____. Are any restrictions as to data, size, range, etc. covered adequately in description? Yes ___ No ___
Comment _____
8. Does the Program meet the minimal standards of COMMON? Yes ___ No ___
Comment _____
9. Were all necessary parts of the program received? Yes ___ No ___
Comment _____
10. Please list on the back any suggestions to improve the usefulness of the program. These will be passed onto the author for his consideration.

Please return to:

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Data Corporation
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Dayton, Ohio 45432

Your Name _____
Company _____
Address _____
Users Group Code _____

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WISAL Processor for Computer Accounting Case

Craig MacKenna

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University of Wisconsin
Commerce Data Processing
Center
Madison, Wisconsin 53706

Modifications or revisions to this program, as they occur, will be announced in the appropriate Catalog of Programs for IBM Data Processing Systems. When such an announcement occurs, users should order a complete new program from the Program Information Department.

PROGRAM ABSTRACT

TITLE - WISAL Processor for Computer Accounting Case

SUBJECT CLASSIFICATION - Type IV, 1620 02.0

AUTHOR/ORGANIZATION - Craig MacKenna, University of Wisconsin-Milwaukee Computer Center, Users Group Code 3285

DIRECT INQUIRIES TO Richard McCoy, University of Wisconsin, Commerce Data Processing Center, Madison, Wisconsin 53706. Phone 608-262-3816

DESCRIPTION/PURPOSE A processor for the WISAL language developed by Mr. McCoy and Mr. Jack Anderson, described in - Computer Accounting Case - (John Wiley, 1966). WISAL is an accounting language designed for educational use. This system deals with a single pre-set accounting case, the Wholesale Paper Company, decks for which are included. Input consists of student - prepared programs in the WISAL language, output being accounting statements.

METHOD N/A

RESTRICTION/RANGE N/A

SPECIFICATIONS

20 K decimal digits or larger
Requires card reader - punch
1 1311 disk drive
indirect addressing

Software requirement 1620 Monitor I or II
Can utilize 1443 Printer, but not required.
Problem and Processor written in 1620-1710 SPS II-D
Sample program in WISAL language.

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DECK LABELLING SHEET

- Deck 1. Problem Object Deck "The Wholesale Paper Company."
5 Control Records have no sequencing. Subsequent cards sequenced in columns 76-80, 00001 to 00226.
- Deck 2. Processor Object Deck. 4 Monitor Control Records have no sequencing. Subsequent cards sequenced in cols. 76-80, 00001 to 00284.
- Deck 3. Sample Program (correct solution)
2 Control Records have no sequencing
Subsequent cards sequenced in cols. 76-80, 00001 to 00096.
- Deck 4. Complete Sample Solution.

OPTIONAL DECKS:

- Deck 1. Problem Source Deck (OPTIONAL MATERIAL)
5 Control Records have no sequencing.
Source cards sequenced in cols. 1-5, 00010 to 08340.
- Deck 2. Processor Source Deck (OPTIONAL MATERIAL)
4 ~~5~~ Control records have no sequencing
Source cards sequenced in cols. 1-5, 00010 to 14280.

Optional material will be sent when specifically requested.

PROGRAM WRITE-UP

NAME: WISAL Processor for Computer Accounting Case

DATE: 6/12/66

PROGRAMMER: Craig MacKenna
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Users Group Code 3285

DESCRIPTION: The WISAL educational accounting language is described by Mr. R. W. McCoy and Mr. Jack Anderson in "Computer Accounting Case" (John Wiley, 1966). This book is primarily a student text to be used in accounting courses utilizing WISAL. Also available from the same authors and publisher is an Instructor's Manual (title unknown at the time of this writing), which presents the information necessary to the accounting instructor for presentation and use of the WISAL language. Both these publications reference the problem included in this 1620 system. The emphasis is this writeup will accordingly be on information necessary to the computing installation at which the instructor has arranged for the running of the student programs.

I. Language specification and definition

The language which the processor is able to compile is as described in the student publication. The program is divided into a number of routines, each corresponding to a type of transaction encountered in the accounting case. Each transaction in the case is then assigned to a particular routine for processing in a reference section.

An attempt at a formal definition of WISAL in Backus notation follows:

```

<program> ::= <routine> | <program><routine>
<routine> ::= <label><routine part>
<label> ::= <non-blank><symbol><symbol><symbol>
<symbol> ::= blank | <non-blank>
<routine part> ::= <filler><sentence><filler> |
                  <routine part><sentence><filler>
<filler> ::= empty | <string which contains no key word>
<key word> ::= <verb> | <object> | <amount>
<string> ::= <symbol> | <string><symbol>
<sentence> ::= <verb><filler><object><filler><amount>
<verb> ::= DEBIT | CREDIT
<object> ::= <account> | (CUST)
<amount> ::= <simple amount> | (<combine>)
<combine> ::= <simple amount> | <combine><operator><simple amount>
<simple amount> ::= <mnemonic>AMT | AMT<amt.no.>
<amt.no.> ::= 1 | 2 | 3
<mnemonic> ::= CASH | DISC | VOUCH
<account> ::= <numeric><numeric><numeric><numeric>
<operator> ::= + | -
<non-blank> ::= <numeric> | A | B | ... | Z | * | + | - | / | . | , | $ |
              @ | ( | ) | %
<numeric> ::= 0 | 1 | 2 | ... | 9

```

<string which contains no key word> I leave to the imagination of the reader, <string> and <key word> having been defined. More restraints are put on the syntax, of course, the input being column-dependent and the <account> being required to be one of those general ledger account numbers defined in the problem, to name but two.

The main purpose of the formal definition, however, was to illustrate the greater flexibility of the 1620 processor. The above is a definition of the language as is the student manual. The 1620 Processor will also compile under the following modifications:

```

<simple amount> ::= <mnemonic><amfill>AMT | AMT<amfill><amt.no.> | AMT
<amfill><mnemonic>
<amfill> ::= empty | <string which contains no key>
<key> ::= <key word> | <operator> | ( | )
<operator> ::= + | - | PLUS | MINUS
<string which contains no key> is again left undefined. Thus, we
may write for accounts:

```

AMT OF THE DISCOUNT
(VOUCHER AMT MINUS AMT #1)

and so forth. This should be brought to the attention of the instructor, as he may find the extended language more natural to teach.

II. Error Messages - Student Directed

Messages to the student are as explained in the student text, with the following additions:

0-2-8 ON CARD, REPLACED BY BLANK

The student should not have to worry about this. It indicates a keypunching error creating a record mark.

PREVIOUS ROUTINE NOT COMPLETED

The last sentence, on the card preceding that for which this message was produced (which has a label in columns 8-11), was not correctly ended.

LABEL DUPLICATES PREVIOUS LABEL

The label in columns 8-11 of the card for which this message was produced is identical to a previous label.

TRANSACTION CODED TWICE, NO nnn

Either A) Two XREF cards (see INPUT) for the same transaction are present, or B) the student has attempted to code a transaction which the instructor has pre-coded.

The instructor should be advised of the existence and meaning of these additional student-directed messages.

III. Logging, Error Cut-off

In a previous presentation by the author (of the program), much was made of the logging capabilities of the WISAL system, providing feedback to the instructor of a detailed record of his students' progress. This has been eliminated in this version, being replaced by merely 2 lines on the console typewriter for each student run, of the following form:

(First line) A copy of the TITLE card, the first card of a student's program.

(Second line) One of the following two forms:

ERROR CUT-OFF--nnn LANGUAGE ERRORS, nn REFERENCE ERRORS (or) BALANCE SHEET ERROR, xx.xx-, LANGUAGE ERRORS nnn, REFERENCE ERRORS nnn

A distinction is made between errors in the form of instructions (LANGUAGE ERRORS) and errors in the application of instructions to particular transactions (REFERENCE ERRORS).

The instructor may specify upper limits for each of these classifications, such that if any student's total errors in either category exceeds the upper limit for that category, the output phase for that student is eliminated. This feature could be especially convenient in installations not having a printer, where the punching of 275 cards of output for a student whose cards were reversed in the reader might not be relished. The fields in which these upper limits are punched are found in columns 11-13 and 14-16 of the first card of the processor object deck proper, sequence number 00001. These upper limits are 10 language errors and 15 reference errors and 15 reference errors when the program is obtained from the library. These fields, if changed, should of course have their high-order flags punched.

The typed log from each run should be given to the instructor.

IV. Punched vs. Printed output.

If the installation using WISAL has a 1443 Printer attached to the 1620, they will probably wish to use it for output, in which case a flagged 1 should be placed in column 9 of the first card of the processor object deck proper, sequence 00001 of deck 1. Otherwise the punched output should be printed on a 407 or similar device, with a special board. A wiring diagram for a 407 WISAL board is included in this material.

V. Timing

The time required to load the WISAL processor and problem from disk storage is considerable, making the system more attractive for batch runs than individual runs, and necessitating that timing be given in terms of the actual processing time for one student's program.

To process a single student's program on a 1620 Model II with a 250 CPM reader and a 240 LPM printer, the time ran about 30 seconds in the case of an error cut-off, and slightly under 2 minutes in the case of a full output.

On a Model II with an 800 CPM reader and 240 LPM printer, both timings were about 10 seconds less.

VI Program Organization and Processing

The WISAL Processor is stored on disk in Monitor reloadable format, and has several transfers of control ("executes") during the process of loading into core storage. During these, sections of the problem and processor are written out to the Monitor cylinders. The minimum work cylinder size, 10 cylinders, is more than sufficient to contain these overlays.

The phases of the Processor are described below:

PHASE A1 Reads the problem, which is stored in core image format, from the disk and writes it back out to the work cylinders in sections, relocating addresses in the problem so that each problem section may reside as high in core storage as its length dictates. Any person desiring to write a new problem is warned that his problem should not be much more lengthy than is the standard problem, or core overlap with PHASE A1 will result.

INTERPHASES. During these transfers of control, phases of the processor are written out into the work cylinders.

OUTPUT ROUTINE. Either the card or printer output routine is selected and written out to disk storage for subsequent use, based on the "printer switch digit" previously mentioned.

PHASE B. This phase reads the program, produces diagnostics if appropriate, and compiles the instructions into code interpretable by Phase C.

PHASE C. This phase reads the reference section, produces diagnostics if appropriate, and executes the code from Phase B interpretively to update the total debits and total credits of general ledger and accounts receivable subledger accounts. In Phase C the decision is then made whether to continue on to Phase D1 for a full printout, or to return to Phase B or to Monitor due to excessive errors.

PHASE D1. Produces the general ledger and accounts receivable subledger as output.

PHASE D2. Derives and produces the income statement and balance sheet, and returns to Phase B or to Monitor.

VII. Organization of the Project.

Decisions as to use of WISAL and time spent on the project are of course up to the accounting instructor and computing installation, but the following schedule is offered as a guide.

A. Before the sixth week before the end of the term, the students should have obtained and read the student text, "Computer Accounting Case" (John Wiley, 1966). The sixth week before the end of the term is then a good time for the students to write their programs on the forms provided in the text, and submit them.

B. In the fifth week before the end of the term, the program can be keypunched and the initial run made at the installation. Key punching instructions can be found in the subsequent section, INPUT. See also the section OPERATING INSTRUCTIONS. On card system, the programs and output are then listed on a 407 or similar device.

C. The program and output listings are then returned to the students, who make corrections and resubmit. This procedure continues until the correct solution is obtained by each student. The correct solution is presented in the student text, in terms of the correct figures for each account, for the balance sheet total, etc. The program to obtain this solution is presented in the instructor's manual, and also in deck 2 of this 1620 system.

Due to class scheduling or other reasons, the instructor might specify that only a certain number of resubmissions are to be made or none at all. The starting date for the project could then be set later.

VIII. Pre-coding by instructor.

Depending on the level of advancement of his students and the degree of difficulty of problem he desires, the instructor may choose to pre-code some of the transactions in the accounting case. Instructions for so doing are found in the instructor's manual.

If he desires precoding, the instructor will provide the computing installation with a program in the WISAL language. This is key-punched just as if it were a student program (see a subsequent section), except that the word TITLE on the first card is replaced by ADMIN. Several copies of this deck should then be made, and any WISAL run of student programs should have this deck inserted behind the ~~7~~XEQ WISAL card and before the first student's TITLE card.

INPUT

The student manuals contain an ample supply of WISAL coding forms, and also a section in which to code the reference section where individual transactions are assigned to routines for processing. The installation and the instructor have the option of

- 1) Letting the accounting students themselves do the keypunching
- 2) Using student workers to do the punching
- 3) Using professional keypunch operators

It is suspected that almost all groups contemplating WISAL will quickly reject the first possibility. In either of the other cases, the program coding forms are self-explanatory:

Columns 1-7 Page and line numbers

Columns 8-11 Label of routine (left-justified)

Columns 12-72 Instructions

Columns 73-80 Identification, sequencing, or blank

The student has also written on his coding sheets, either as the first or last line, his name, section, and other information. This should be keypunched on the first card, with the word TITLE in columns 1-5.

The sheets constituting the reference section have, associated with each transaction, 4 boxes in which to enter a label of a routine to handle that transaction. The number of transactions on a page varies from 3 to 12. Follow the following rules in punching the cards in the reference section:

- 1) One page is punched into one card
- 2) The letters 'XREF' are to be punched in columns 1-4 of all cards in the reference section
- 3) The number of the first transaction on the page is to be punched in columns 9-11, right justified
- 4) The label that the student has associated with the first transaction on the page is to be punched in columns 12-15, that associated with the second in 16-19, and so on through successive quadruples of columns until the last label written on the page is punched. Should a student leave the 4 boxes for some transaction blank due to precoding of transactions by the instructor, the related four columns on the card should be left blank. Labels here, as in the program, should be left-justified.
- 5) Again, columns 73-80 may be used for identification or sequencing.

OUTPUT

On a system with an on-line printer, the entire program and reference section are automatically listed as they are read, with diagnostics appearing interspersed in the listing. On a card system, only input cards in error are repunched, followed by the diagnostic.

On any system, if the errors discovered do not exceed the upper limits (see a previous section), a full output is then produced, consisting of a general ledger, accounts receivable sub-ledger, income statement, and balance sheet for the Wholesale Paper Company for the period. This amounts to 5 pages of listed output, or about 275 cards on a card system.

On a card system, the output must be listed on a 407 or similar machine, with a special panel board. Specifications for the board, and a diagram of its wiring for a 407, are included herewith.

RESTRICTIONS The use of WISAL as submitted is clearly restricted to the single problem, The Wholesale Paper Company. Anyone desiring to code a new problem must do so in SPS in a form acceptable to the WISAL processor. Detailed instructions for coding a problem can be found as comments in the source listing of the problem included herewith.

HALTS AND MESSAGES

In addition to the student-directed diagnostics, messages to the operator may be typed, as follows:

I. Operator Directed Messages.

ENTER 4-DIGIT DIM NO. OF PROBLEM

In the case when more than one problem is defined under the WISAL processor by a flagged one in column 10 of the first sequenced card of the processor deck, the operator should here type a 4-digit DIM number as instructed by the student or instructor. This message will not occur in the program as received from the library. On Release and Start, operation continues.

TITLE OR ADMIN CARD MUST BEGIN INPUT
CORRECT, START

The first card following the ~~4~~XREF WISAL must bear the letters ADMIN or TITLE in columns 1-5. A halt occurs. The operator may correct the card, replace the deck in the card reader with the corrected card first, and press START.

A TITLE CARD HAS BEEN FOUND IN THE SOURCE PROGRAM
SW 2 OFF TO CONTINUE AND IGNORE, ON TO ACCEPT.

The operator should examine the input deck, including the last few cards read. There will be a card bearing the word TITLE or ADMIN in columns 1-5. If the cards preceding the offending card have the same identification (columns 73-80) as those following it, he may simply START. Otherwise, he should turn switch 2 ON and start. If the student, instructor, or some other person with a knowledge of WISAL is present, he should be consulted.

TITLE CARD MISSING

The operator should examine the input deck, including the last few cards read. One or more cards have been read with the letters XREF in columns 1-4. Following these is the last card read. This card may be one of three types:

- 1) A card with TITLE or ADMIN in columns 1-5 misspelled. Also of this type is any card bearing a student's name, section number, etc., but with TITLE entirely missing.
- 2) A card with XREF misspelled in columns 1-4
- 3) Some stray card

In the case of 3), the operator may just START. In the case of 1 or 2, the operator should correct the card, place it before the remainder of the input in the card reader, and START.

II. Unlikely messages

None of these should occur in the operation of the program and problem as received from the library. Most deal with the creation of a new problem.

WISAL VS. PROBLEM FIELD LENGTH NON-MATCH

The length of a field must be the same in the processor and problem. The processor and problem come from the library with both 7. This calls for a change to the source deck, and re-assembly of, either the processor or the new problem.

CORE OVERLAP, PROBLEM WITH WISAL PHASE. .

Some section of the new problem must be shortened. See the listings of phase A1 of the processor, and of the standard problem.

STUDENT PROGRAM EXCEEDS CORE CAPACITY AT THIS POINT STUDENT PROGRAM TERMINATED, JOB TERMINATED

This message would be punched or printed, and a sudden END OF JOB would occur, with cards still remaining to be processed.

With the standard problem, if the input is examined, it should be found that the programs of several students were run together under the same title card. This should be corrected and the run again performed.

BAD OUTPUT CODE IN I. S., B. S. LABELS

One of the codes used by the person writing a new problem in the income statement or balance sheet is unknown to the processor. See the listings of phase D2 and the standard problem.

OPERATING INSTRUCTIONS

I. Loading the WISAL System to Disk.

Before running deck 0 (the standard problem) to load the problem on disk, a cold start should have been done to bring Monitor into core. Also, it should be determined that DIM number 361 is available (or 361 should be made available).

Deck 0 begins with a JOB card. On the first time run, the *DELET WISPRB card will produce a DUP*ERROR 20. This may be started, and ignored, with impunity, as may the similar condition resulting from the *DELET WISAL in deck 1.

At the start of deck 1 there are message records inquiring whether the problem did indeed load to DIM number 361, and a ~~PAUS~~ record. This should be started if the problem did load as 361.

Deck 2 is the sample (correct) program in the WISAL language. This should be run according to the following instruction for an individual run with no precoding.

Before running DECK 1, the first sequenced card therein may be modified as previously described according to the presence of an on-line printer and the choice of the instructor as to error cut-off point.

II. Running WISAL programs.

It should be determined from the instructor before any processing of student programs whether running is to be done on an individual basis or a batched basis, and whether precoding is to be done or not. These decisions determine four distinct modes of operation.

The processor uses the last-card indicator to determine the end of its input. Thus, at no time should a last-card condition be allowed to occur except at the end of input. Also, other Monitor jobs should not be stacked behind a WISAL run, except for an individual run with no precoding.

The use of console switch 1 is summarized in the following table:

BATCHED?	PRECODING?	SW 1 - SETTING
No	No	OFF
No	Yes	ON
Yes	No	ON
Yes	Yes	ON

The deck representing WISAL input should be preceded by

~~##JOB 5~~

~~##REQ WISAL~~

control records. The printer should be readied if present on-line, the punch otherwise. Aside from the previously mentioned error messages and halts, operation should be straight forward.

The only other factor important in the operation of the program is the insertion of the ADMIN deck if precoding is being done by the instructor. This is described in a preceding section, PRECODING BY INSTRUCTOR.

EQUIPMENT REQUIRED

IBM 1620 Model I or II
1 1311 Disk Drive
20,000 positions of core storage or more
Card reader-punch
Indirect addressing
No other special features.

Can utilize 1443 printer, but this is not required

SOFTWARE REQUIREMENT: Monitor I or II

ASSEMBLER USED

IBM 1620-1710 SPS II-D as provided with MONITOR I, VERSION 2.

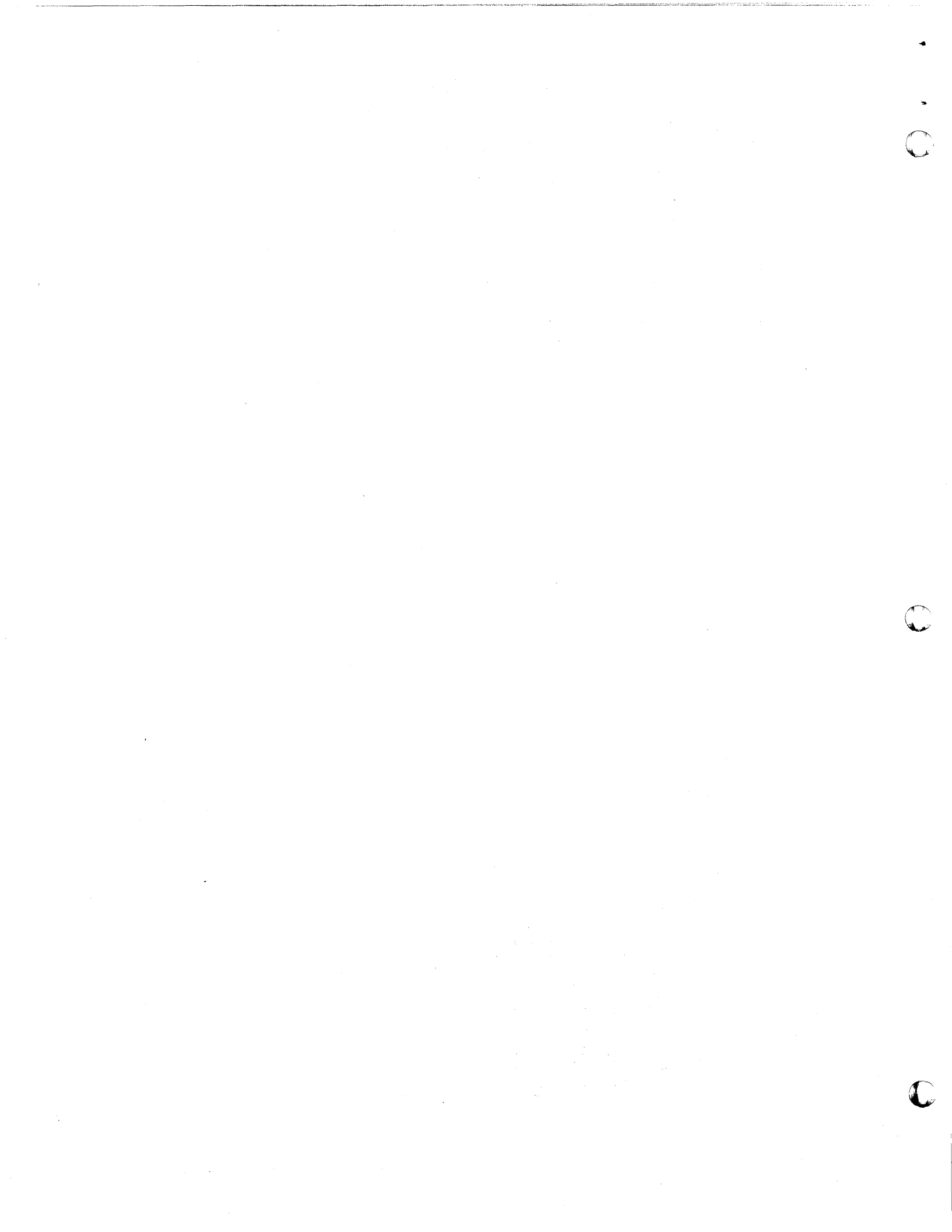
WISAL BOARD SPECIFICATIONS
FOR UNIT-RECORD PRINTER

(No board diagram has been included in this writeup)

1. On = (3-8 punches) in column 1, restore to new page after printing
2. On * (11-4-8 punches) in column 80, restore to new page before printing
3. If alter switch 1 is off, transfer print columns 2-80 in print positions 20-99
4. If alter switch 1 is on,
 - A. Transfer print columns 2-80 in print positions 20-99 if * (11-4-8) in column 1 or 80.
 - B. On any other card, split as follows:

CARD CØLS.	PRINT PØS.
1 - 4	1 - 4
5 - 39	10 - 44
40 - 50	48 - 58
51 - 59	61 - 69
60 - 69	73 - 82
70 - 80	86 - 96

(Pages 19 - 23 omitted by author)



SYMBOL TABLE

TTABLE 18965	LTABLE 11688	ITABLE 08910	HEDDSB 19654	HEDDSA 19604
ARLBI 10975	ARNM1 10595	ARTOT 16559	DATEP 19833	GLTOT 15201
HEDDR 19600	ISLBI 04927	L 00007	LDNM1 09244	LDSA 19681
L1 12011	L10 12381	L11 12423	L12 12497	L13 12535
L14 12609	L15 12649	L16 12725	L17 12749	L18 12809
L19 12825	L2 12043	L20 12859	L21 12899	L22 12939
L23 13007	L24 13059	L25 13131	L26 13207	L27 13253
L28 13293	L29 13361	L3 12071	L30 13413	L31 13453
L32 13497	L33 13529	L34 13589	L35 13631	L36 13685
L37 13703	L38 13767	L39 13803	L4 12111	L40 13829
L41 13857	L42 13929	L43 13973	L44 14009	L45 14055
L46 14095	L47 14165	L48 14217	L49 14279	L5 12157
L50 14345	L51 14383	L52 14425	L53 14471	L54 14503
L55 14557	L56 14629	L57 14671	L58 14733	L59 14775
L6 12203	L60 14821	L61 14877	L62 14925	L63 14991
L64 15029	L7 12257	L8 12307	L9 12343	MONTH 19899
P 15215	R 00021	S 00021	SPEC 16552	TUSWS 15070
T1 16941	T10 17106	T100 18561	T101 18580	T102 18604
T103 18616	T104 18628	T105 18640	T106 18652	T107 18664
T108 18676	T109 18709	T11 17123	T110 18721	T111 18733
T112 18745	T113 18757	T114 18769	T115 18788	T116 18807
T117 18826	T118 18845	T119 18864	T12 17147	T120 18876
T121 18888	T122 18900	T123 18919	T124 18931	T125 18943
T13 17171	T14 17188	T15 17207	T16 17219	T17 17231
T18 17243	T19 17255	T2 16960	T20 17267	T21 17286
T22 17303	T23 17327	T24 17351	T25 17370	T26 17387
T27 17399	T28 17418	T29 17430	T3 16972	T30 17449
T31 17468	T32 17485	T33 17502	T34 17519	T35 17536
T36 17548	T37 17572	T38 17589	T39 17606	T4 16984
T40 17618	T41 17630	T42 17647	T43 17666	T44 17678
T45 17695	T46 17707	T47 17719	T48 17731	T49 17743
T5 17008	T50 17760	T51 17777	T52 17796	T53 17808
T54 17820	T55 17832	T56 17844	T57 17856	T58 17875
T59 17892	T6 17032	T60 17911	T61 17923	T62 17935
T63 17954	T64 17966	T65 17978	T66 17990	T67 18002
T68 18014	T69 18031	T7 17051	T70 18055	T71 18074
T72 18091	T73 18124	T74 18136	T75 18155	T76 18172
T77 18196	T78 18220	T79 18244	T8 17070	T80 18261
T81 18280	T82 18292	T83 18316	T84 18333	T85 18345
T86 18357	T87 18369	T88 18381	T89 18393	T9 17089
T90 18405	T91 18417	T92 18429	T93 18441	T94 18453
T95 18470	T96 18487	T97 18504	T98 18523	T99 18542
WPC 19767	X 16559	X5 19592	Y1 04926	Y2 09236
Y3 11682	Y4 15070	Y5 16938		

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SYMBOLIC PROBLEM PARAMETERS				
00010***				
00020 L	DS	,7,	LENGTH OF A WISAL FIELD	00007 00000
00030 S	DS	,3*L,	LENGTH OF A GENERAL LEDGER IN BLOCK 4	00021 00000
00040 R	DS	,3*L,	LENGTH OF A GENERAL LEDGER IN BLOCK 2	00021 00000
00050***	END OF HEADER SECTORS ***			

00070*				*
00080*	BLOCK 1 -- I.S. AND B.S. LABELS, VECTOR TABLES			*
00090*				*

00110 Y1	DS	,4926,	ADJUST TO MAKE X5 LESS THAN HEDDR, MUST BE EVEN	04926 00000
00120	DORG	Y1		04926
00130 ISLBI	DAC	6,SALES3,,	,,THE DC AFTER EACH LABEL	04927 00012
00140	DC	2,0	,, EQUALS TWICE THE NO.	04939 00002
00150	DAC	29,LESS RETURNS AND ALLOWANCES2,,	,, OF COLUMNS DESIRED FROM	04941 00058
00160	DC	2,46	,, THE 2ND S IN -SALES- ON	04999 00002
00170	DAC	10,DISCOUNTS5,,	,, THE OUTPUT PAGE TO THE	05001 00020
00180	DC	2,20	,, RIGHT END OF THE LABEL.	05021 00002
00190	DAC	2, 6,,	,, (FOR CARD POSITIONING	05023 00004
00200	DC	2,00	,, PURPOSES).	05027 00002
00210	DAC	19,COST OF GOODS SOLD0,,	,,	05029 00038
00220	DC	2,26	,,	05067 00002
00230	DAC	20,BEGINNING INVENTORY2,,	,,THE LAST CHARACTER OF	05069 00040
00240	DC	2,34	,, EACH DAC IS A CODE	05109 00002
00250	DAC	10,PURCHASES2,,	,, REPRESENTING THE	05111 00020
00260	DC	2,14	,, PARTICULAR ACTION	05131 00002
00270	DAC	11,FREIGHT-IN2,,	,, TO BE TAKEN	05133 00022
00280	DC	2,16	,,	05155 00002
00290	DAC	17,LESS RETURNS AND0,,	,,	05157 00034
00300	DC	2,28	,,	05191 00002
00310	DAC	11,ALLOWANCES1,,	,,0 MEANS OUTPUT THE	05193 00022

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00320	DC	2,22	,, LABEL ONLY	05215 00002
00330	DAC	19,PURCHASE DISCOUNTS4,,	,,	05217 00038
00340	DC	2,38	,,1 MEANS ADD THE GENERAL	05255 00002
00350	DAC	14,COST OF GOODS0,,	,, LEDGER FINAL BALANCE	05257 00028
00360	DC	2,32	,, PRESENTLY REFERENCED	05285 00002
00370	DAC	14,AVAILABLE FOR0,,	,, IN THE VECTOR TABLE	05287 00028
00380	DC	2,34	,, TO BLOCK 2 TO THE	05315 00002
00390	DAC	5,SALE7,,	,, COLUMN 1 TOTAL (THERE	05317 00010
00400	DC	2,16	,, ARE 4 COLUMNS), AND	05327 00002
00410	DAC	17,ENDING INVENTORY9,,	,, ADVANCE THE POINTER	05329 00034
00420	DC	2,28	,, IN THE VECTOR TABLE	05363 00002
00430	DAC	19,COST OF GOODS SOLD8,,	,, TO THE NEXT TOTAL.	05365 00038
00440	DC	2,42	,, ALSO DISPLAY GLFB COL1	05403 00002
00450	DAC	2, 0,,	,,	05405 00004
00460	DC	2,00	,,2 MEANS ADD G.L.F.B.	05409 00002
00470	DAC	13,GROSS PROFIT6,,	,, TO THE COLUMN 2	05411 00026
00480	DC	2,30	,, TOTAL, ADVANCE THE	05437 00002
00490	DAC	2, 0,,	,, POINTER	05439 00004
00500	DC	2,00	,, ALSO DISPLAY GLFB COL 2	05443 00002
00510	DAC	17,SELLING EXPENSES0,,	,,	05445 00034
00520	DC	2,22	,,3 MEANS ADD TO COLUMN	05479 00002
00530	DAC	15,SALES SALARIES1,,	,, 3 TOTAL, ADVANCE	05481 00030
00540	DC	2,24	,, ALSO DISPLAY IN COL 3	05511 00002
00550	DAC	12,ADVERTISING1,,	,,4 MEANS DISPLAY REFERENCE	05513 00024
00560	DC	2,18	,, 0 FINAL BALANCE COL 1,	05537 00002
00570	DAC	9,DELIVERY1,,	,, ADD TO COL 1 TOTAL,	05539 00018
00580	DC	2,12	,, DISPLAY COL 1 TOTAL	05557 00002
00590	DAC	21,DEPRECIATION - STORE0,,	,, IN COL 2, ADD COL 1	05559 00042
00600	DC	2,36	,, TOTAL TO COL 2 TOTAL	05601 00002
00610	DAC	10,EQUIPMENT1,,	,, THEN RESET COL 1 TOTAL	05603 00020
00620	DC	2,20	,, TO ZERO, ADVANCE	05623 00002

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00630	DAC	15,STORE SUPPLIES1,,	,,	05625 00030
00640	DC	2,24	,,	05655 00002
00650	DAC	10,INSURANCE1,,	,,5 MEANS DISPLAY RGLFB	05657 00020
00660	DC	2,14	,, IN COL 2, ADD RGLFB	05677 00002
00670	DAC	14,MISCELLANEOUS4,,	,, TO COL 2 TOTAL, DISPLAY	05679 00028
00680	DC	2,22	,, COL 2 TOTAL IN COL 3	05707 00002
00690	DAC	2, 0,,	,, ADD COL 2 TOTAL TO	05709 00004
00700	DC	2,00	,, COL 3 TOTAL, RESET C2T,	05713 00002
00710	DAC	17,GENERAL EXPENSES0,,	,, AND ADVANCE	05715 00034
00720	DC	2,22	,,	05749 00002
00730	DAC	16,OFFICE SALARIES1,,	,,	05751 00032
00740	DC	2,26	,,6 MEANS DISPLAY COL 3	05783 00002
00750	DAC	18,OFFICERS SALARIES1,,	,, TOTAL IN COL 3	05785 00036
00760	DC	2,30	,, WITH \$ IN RIGHT OF C2	05821 00002
00770	DAC	14,PAYROLL TAXES1,,	,,	05823 00028
00780	DC	2,22	,,	05851 00002
00790	DAC	5,RENT1,,	,,7 MEANS DISPLAY C2T	05853 00010
00800	DC	2,04	,, IN C2	05863 00002
00810	DAC	16,OFFICE SUPPLIES1,,	,,	05865 00032
00820	DC	2,26	,,	05897 00002
00830	DAC	22,DEPRECIATION - OFFICE0,,	,,8 MEANS DISP C2T IN C3,	05899 00044
00840	DC	2,38	,, C3T = C3T + C2T	05943 00002
00850	DAC	10,EQUIPMENT1,,	,, C2T = 0	05945 00020
00860	DC	2,20	,, ADVANCE	05965 00002
00870	DAC	10,UTILITIES1,,	,,	05967 00020
00880	DC	2,14	,,9 MEANS DISP RGLFB IN	05987 00002
00890	DAC	10,INSURANCE1,,	,, C2, SUBTRACT RGLFB	05989 00020
00900	DC	2,14	,, FROM C2T	06009 00002
00910	DAC	10,BAD DEBTS1,,	,,	06011 00020
00920	DC	2,14	,,	06031 00002
00930	DAC	20,REPAIRS ON BUILDING1,,	,,Z MEANS DISP CONTENTS	06033 00040

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00940	DC	2,34		,, OF STOR1 FIELD IN	06073 00002
00950	DAC	20,DEPRECIATION - BLDG1,,		,, C1, ADD TO CIT	06075 00340
00960	DC	2,34		,,	06115 00002
00970	DAC	15,PROPERTY TAXES1,,		,,Y MEANS DISP CONTENTS	06117 00030
00980	DC	2,24		,, OF STOR2 FIELD IN	06147 00002
00990	DAC	14,MISCELLANEOUS4,,		,, C1, ADD TO CIT	06149 00028
01000	DC	2,22		,,	06177 00002
01010	DAC	2, 9,,		,,	06179 00004
01020	DC	2,00		,,	06183 00032
01030	DAC	21,NET OPERATING INCOME6,,		,,X MEANS DISPLAY STOR3	06185 00042
01040	DC	2,46		,, IN C1,	06227 00002
01050	DAC	25,OTHER INCOME AND EXPENSE0,,		,, CIT = CIT + STOR3	06229 00050
01060	DC	2,38		,,	06279 00002
01070	DAC	10,INTEREST INCOME2,,		,,	06281 00032
01080	DC	2,26		,,W,V,U MEAN DISPLAY	06313 00002
01090	DAC	17,INTEREST EXPENSE5,,		,, STOR1, STOR2 STOR3	06315 00034
01100	DC	2,28		,, RESPECTIVELY IN C2,	06349 00002
01110	DAC	2, 0,,		,, ADD SAME TO C2T	06351 00004
01120	DC	2,00		,,	06355 00002
01130	DAC	11,NET INCOME6,,		,,	06357 00022
01140	DC	2,26		,,*THE FOLLOWING CODES	06379 00002
01150	DAC	2, 1,,		,, CAUSE THE ASSOCIATED	06381 00004
01160	DC	2,00		,, MESSAGE TO BE PLACED	06385 00002
01170	DAC	2, M,,		,, IN THE OUTPUT AREA,	06387 00004
01180	DC	2,00		,, BUT NO CARD TO BE	06391 00002
01190	DAC	2, 0,, BEGIN BAL SHEET		,, NECESSARILY PUNCHED.	06393 00004
01200	DC	2,00		,,	06397 00002
01210	DAC	2, 0,,		,,	06399 00004
01220	DC	2,00		,,T,S,R CAUSE C3T TO BE	06403 00002
01230	DAC	7,ASSETS0,,		,, LOADED INTO STOR1,	06405 00014
01240	DC	2,20		,, STOR2, STOR3	06419 00002

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01250	DAC	2, 0,,		,, RESPECTIVELY	06421 00004
01260	DC	2,00		,,	06425 00002
01270	DAC	15,CURRENT ASSETS0,,		,,Q,P,D CAUSE C2T TO BE	06427 00030
01280	DC	2,08		,, LOADED INTO STOR1,	06457 00002
01290	DAC	2, 0,,		,, STOR2, STOR3	06459 00004
01300	DC	2,00		,, RESPECTIVELY	06463 00002
01310	DAC	13,CASH IN BANK2,,		,,	06465 00026
01320	DC	2,08		,,	06491 00002
01330	DAC	11,PETTY CASH2,,		,,N CAUSES CIT, C2T, C3T,	06493 00022
01340	DC	2,04		,, C4T TO BE ZEROED	06515 00002
01350	DAC	17,NOTES RECEIVABLE2,,		,,	06517 00034
01360	DC	2,16		,,	06551 00002
01370	DAC	20,INTEREST RECEIVABLE2,,		,,M CAUSES A TITLE CARD	06553 00040
01380	DC	2,22		,, COPY AND THE HEADER	06593 00002
01390	DAC	20,ACCOUNTS RECEIVABLE1,,		,, LINES FOR THE BALANCE	06595 00040
01400	DC	2,22		,, SHEET TO BE PUNCHED	06635 00002
01410	DAC	19,LESS ALLOWANCE FOR0,,		,, AND THE TOTALS TO BE	06637 00038
01420	DC	2,26		,, ZEROED	06675 00002
01430	DAC	10,BAD DEBTS4,,		,,	06677 00020
01440	DC	2,18		,,L CAUSES A TITLE CARD	06697 00002
01450	DAC	22,MERCHANDISE INVENTORY2,,		,, COPY TO BE PUNCHED,	06699 00044
01460	DC	2,26		,, AND THE TOTALS ZEROED	06743 00002
01470	DAC	15,STORE SUPPLIES2,,		,,	06745 00030
01480	DC	2,12		,,	06775 00002
01490	DAC	16,OFFICE SUPPLIES2,,		,,	06777 00032
01500	DC	2,14		,,	06809 00002
01510	DAC	18,PREPAID INSURANCE2,,		,,*OUTPUT CODES MAY BE	06811 00036
01520	DC	2,18		,, ADDED TO THE SET	06847 00002
01530	DAC	20,PREPAID INTEREST ON0,,		,, BY SIMPLY ADDING	06849 00040
01540	DC	2,22		,, ADDRESSES TO THE DSA	06889 00002
01550	DAC	14,NOTES PAYABLE2,,		,, TABLE IN THE WISAL	06891 00028

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01560	DC	2,16	,,	OUTPUT PHASE D2	06919 00002
01570	DAC	2, 0,,	,,	ADDING THE ROUTINES	06921 00004
01580	DC	2,00	,,	YOU WANT, AND THEN	06925 00002
01590	DAC	21,TOTAL CURRENT ASSETS8,,	,,	USING THE CODES AS	06927 00042
01600	DC	2,34	,,	THE LAST CHARACTER	06969 00002
01610	DAC	2, 0,,	,,	OF A LABEL	06971 00004
01620	DC	2,00	,,		06975 00002
01630	DAC	28,PROPERTY, PLANT + EQUIPMENTS,,	,,		06977 00056
01640	DC	2,34	,,		07033 00002
01650	DAC	2, 0,,	,,		07035 00004
01660	DC	2,00	,,		07039 00002
01670	DAC	16,STORE EQUIPMENT1,,	,,		07041 00032
01680	DC	2,14	,,		07073 00002
01690	DAC	17,LESS ACCUMULATED0,,	,,		07075 00034
01700	DC	2,22	,,		07109 00002
01710	DAC	13,DEPRECIATION4,,	,,		07111 00026
01720	DC	2,26	,,		07137 00002
01730	DAC	2, 0,,	,,		07139 00004
01740	DC	2,00	,,		07143 00002
01750	DAC	17,OFFICE EQUIPMENT1,,	,,		07145 00034
01760	DC	2,16	,,		07179 00002
01770	DAC	17,LESS ACCUMULATED0,,	,,		07181 00034
01780	DC	2,22	,,		07215 00002
01790	DAC	13,DEPRECIATION4,,	,,		07217 00026
01800	DC	2,26	,,		07243 00002
01810	DAC	2, 0,,	,,		07245 00004
01820	DC	2,00	,,		07249 00002
01830	DAC	9,BUILDING1,,	,,		07251 00018
01840	DC	2,00	,,		07269 00002
01850	DAC	17,LESS ACCUMULATED0,,	,,		07271 00034
01860	DC	2,22	,,		07305 00002

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01870	DAC	13,DEPRECIATION4,,	,,		07307 00026
01880	DC	2,26	,,		07333 00002
01890	DAC	2, 0,,	,,		07335 00004
01900	DC	2,00	,,		07339 00002
01910	DAC	5,LAND2,,	,,		07341 00010
01920	DC	2,-8	,,		07351 00002
01930	DAC	2, 0,,	,,		07353 00004
01940	DC	2,00	,,		07357 00002
01950	DAC	25,TOTAL PROP, PLNT + EQUIP8,,	,,		07359 00050
01960	DC	2,42	,,		07409 00002
01970	DAC	2, 0,,	,,		07411 00004
01980	DC	2,00	,,		07415 00002
01990	DAC	13,TOTAL ASSETS6,,	,,		07417 00026
02000	DC	2,32	,,		07443 00002
02010	DAC	2, J,,	,,		07445 00004
02020	DC	2,00	,,		07449 00002
02030	DAC	2, R,,	,,	BEGIN LIABILITIES	07451 00004
02040	DC	2,00	,,		07455 00002
02050	DAC	2, L,,	,,		07457 00004
02060	DC	2,00	,,		07461 00002
02070	DAC	2, 0,,	,,		07463 00004
02080	DC	2,00	,,		07467 00002
02090	DAC	24,LIABILITIES AND CAPITAL0,,	,,		07469 00048
02100	DC	2,46	,,		07517 00002
02110	DAC	2, 0,,	,,		07519 00004
02120	DC	2,00	,,		07523 00002
02130	DAC	20,CURRENT LIABILITIES0,,	,,		07525 00040
02140	DC	2,18	,,		07565 00002
02150	DAC	14,NOTES PAYABLE2,,	,,		07567 00028
02160	DC	2,10	,,		07595 00002
02170	DAC	17,INTEREST PAYABLE2,,	,,		07597 00034

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02180	DC	2,16	..	07631	00002
02190	DAC	17,ACCOUNTS PAYABLE2,,	..	07633	00034
02200	DC	2,16	..	07667	00002
02210	DAC	29,EMPLOYEES INCOME TAX PAYABLE2,,	..	07669	00058
02220	DC	2,40	..	07727	00002
02230	DAC	23,F.I.C.A. TAXES PAYABLE2,,	..	07729	00046
02240	DC	2,28	..	07775	00002
02250	DAC	25,STATE UNEMPLOYMENT TAXES0,,	..	07777	00050
02260	DC	2,32	..	07827	00002
02270	DAC	8,PAYABLE2,,	..	07829	00016
02280	DC	2,04	..	07845	00002
02290	DAC	27,FEDERAL UNEMPLOYMENT TAXES0,,	..	07847	00054
02300	DC	2,36	..	07901	00002
02310	DAC	8,PAYABLE2,,	..	07903	00016
02320	DC	2,04	..	07919	00002
02330	DAC	20,SALES TAXES PAYABLE2,,	..	07921	00040
02340	DC	2,22	..	07961	00002
02350	DAC	17,SALARIES PAYABLE2,,	..	07963	00034
02360	DC	2,16	..	07997	00002
02370	DAC	31,ESTIMATED INCOME TAXES PAYABLE2,,	..	07999	00062
02380	DC	2,44	..	08061	00002
02390	DAC	23,PROPERTY TAXES PAYABLE2,,	..	08063	00046
02400	DC	2,28	..	08109	00002
02410	DAC	2, 0,,	..	08111	00004
02420	DC	2,00	..	08115	00002
02430	DAC	26,TOTAL CURRENT LIABILITIES7,,	..	08117	00052
02440	DC	2,44	..	08169	00002
02450	DAC	2, 0,,	..	08171	00004
02460	DC	2,00	..	08175	00002
02470	DAC	20,LONG-TERM LIABILITY0,,	..	08177	00040
02480	DC	2,18	..	08217	00002

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02490	DAC	17,MORTGAGE PAYABLE2,,	..	08219	00034
02500	DC	2,16	..	08253	00002
02510	DAC	2, 0,,	..	08255	00004
02520	DC	2,00	..	08259	00002
02530	DAC	13,TOTAL LIABILITIES8,,	..	08261	00036
02540	DC	2,28	..	08297	00002
02550	DAC	2, 0,,	..	08299	00004
02560	DC	2,00	..	08303	00002
02570	DAC	6,CAPITAL0,,	..	08305	00016
02580	DC	2,-6	..	08321	00002
02590	DAC	30,PREFERRED 6(STOCK - \$50 PAR,0,,	..	08323	00060
02600	DC	2,42	..	08383	00002
02610	DAC	32,200 SHARES ISSUED + OUTSTANDING1,,	..	08385	00064
02620	DC	2,48	..	08449	00002
02630	DAC	29,COMMON STOCK - \$20 PAR, 30000,,	..	08451	00058
02640	DC	2,40	..	08509	00002
02650	DAC	31,SHARES AUTHORIZED, 1500 SHARES0,,	..	08511	00062
02660	DC	2,46	..	08573	00002
02670	DAC	23,ISSUED AND OUTSTANDING1	..	08575	00046
02680	DC	2,30	..	08621	00002
02690	DAC	27,PREMIUM ON PREFERRED STOCK4,,	..	08623	00054
02700	DC	2,36	..	08677	00002
02710	DAC	2, 0,,	..	08679	00004
02720	DC	2,00	..	08683	00002
02730	DAC	2, 0,,	..	08685	00004
02740	DC	2,00	..	08689	00002
02750	DAC	21,NET INCOME FOR MONTH2,,	..	08691	00042
02760	DC	2,24	..	08733	00002
02770	DAC	27,PREVIOUS RETAINED EARNINGS4,,	..	08735	00054
02780	DC	2,36	..	08789	00002
02790	DAC	2, 0,,	..	08791	00004

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02800	DC	2,00	,,	08795 00002
02810	DAC	14,TOTAL CAPITAL8,,	,,K MEANS ADD STOR3 TO C3T,	08797 00028
02820	DC	2,20	,, END WISAL PHASE D2	08825 00002
02830	DAC	2, 0,,	,, IF ZERO, OTHERWISE	08827 00004
02840	DC	2,00	,, DISPLAY C3T IN	08831 00002
02850	DAC	2, 0,,	,, *YOU GOODFED... *	08833 00004
02860	DC	2,00	,, MESSAGE AND THEN OUT.	08837 00002
02870	DAC	30,TOTAL LIABILITIES AND CAPITAL6,,	GOING OUT INCLUDES	08839 00060
02880	DC	2,46	,, ZERDING C1T, C2T, C3T	08899 00002
02890	DAC	2, K,,	,, AND C4T.	08901 00004
02900	DC	2,00	,,	08905 00002
02910****		END OF LABELS	****	
02920*****				
02930*			*	
02940*		THE FOLLOWING VECTOR TABLE REFERS THE ENTRIES	*	
02950*		IN THE PREVIOUS LIST WHICH HAVE THE NOTATION	*	
02960*		-ADVANCE- TO PARTICULAR GENERAL LEDGER	*	
02970*		FINAL BALANCES IN BLOCK 4	*	
02980*		*THE SYMBOL P WILL HAVE TO BE DEFINED AS GLTOT*2*L	*	
02990*****				
03000*				
03010	ITABLE DSA	P+35*S,P+36*S,P+37*S,SPEC,P+38*S,P+39*S,P+40*S,P+41*S		08910 00005 15950
				08915 00005 15971
				08920 00005 15992
				08925 00005 16552
				08930 00005 16013
				08935 00005 16034
				08940 00005 16055
				08945 00005 16076
03020*				
03030*		NOTE THAT IF YOU WISH TO REFER TO ANY BEGINNING		
03040*		BALANCES, THEY MUST BE DEFINED SEPARATELY IN BLOCK 4		
03050*				
03060	DSA	P+6*S,P+42*S,P+43*S,P+44*S,P+45*S,P+46*S,P+47*S,P+48*S		08950 00005 15341
				08955 00005 16097
				08960 00005 16118
				08965 00005 16139
				08970 00005 16160
				08975 00005 16181
				08980 00005 16202
				08985 00005 16223
03070	DSA	P+49*S,P+50*S,P+51*S,P+52*S,P+53*S,P+54*S,P+55*S,P+56*S		08990 00005 16244
				08995 00005 16265
				09000 00005 16286
				09005 00005 16307
				09010 00005 16328
				09015 00005 16349
				09020 00005 16370
				09025 00005 16391
	DSA	P+57*S,P+58*S,P+59*S,P+60*S,P+61*S,P+62*S,P+63*S		09030 00005 16412
				09035 00005 16433
				09040 00005 16454
				09045 00005 16475
				09050 00005 16496
				09055 00005 16517
				09060 00005 16538
03090	DSA	P,P+S,P+2*S,P+3*S,P+4*S,P+5*S,P+6*S,P+7*S,P+8*S,P+9*S		09065 00005 15215
				09070 00005 15236
				09075 00005 15257
				09080 00005 15278
				09085 00005 15299
				09090 00005 15320

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03100 DSA P+10*S,P+11*S,P+12*S,P+13*S,P+14*S,P+15*S,P+16*S,P+17*S

03110 DSA P+18*S,P+19*S,P+20*S,P+21*S,P+22*S,P+23*S,P+24*S,P+25*S

03120 DSA P+26*S,P+27*S,P+28*S,P+29*S,P+30*S,P+31*S,P+32*S,P+33*S

03130 DC 5,1,, ' SO THAT WISAL CAN TELL THE END OF THE TABLE
03140* WHEN RELOCATING
03150* NOTE THAT P+34*S = ACCT 3115 -- PROFIT + LOSS SUMMARY,

09095 00005 15341
09100 00005 15362
09105 00005 15383
09110 00005 15404
09115 00005 15425
09120 00005 15446
09125 00005 15467
09130 00005 15488
09135 00005 15509
09140 00005 15530
09145 00005 15551
09150 00005 15572
09155 00005 15593
09160 00005 15614
09165 00005 15635
09170 00005 15656
09175 00005 15677
09180 00005 15698
09185 00005 15719
09190 00005 15740
09195 00005 15761
09200 00005 15782
09205 00005 15803
09210 00005 15824
09215 00005 15845
09220 00005 15866
09225 00005 15887
09230 00005 15908
09235 00005

03160* DCES NOT ENTER INTO EITHER BALANCE SHEET OR INCOME ST.
03170***** END OF BLOCK 1 *****

03180*****
03190* *
03200* BLOCK 2 -- A.R. LABELS *
03210* G.L. BEGINNING BALANCES, CORRECT TOT DBS+CRS*
03220* A.R. BEG BALS, CORRECT TOT DBS AND CRS *
03230* *
03240*****

03250*
03260 DAC 1,1,, 09237 00002
03270 Y2 DS ,*-1 09236 00000

03290* G.L. NUMERIC CONSTANTS
03300 LCNMI DVLC ,L,19764*10+5 ,L,18308*100+81 ,L,11393*100+27 09244 00021
03310 DVLC ,L,25000 ,L,0 ,L,0 09265 00021
03320 DVLC ,L,12000*10 ,L,81967 ,L,9000 09286 00021

03330*
03340* FORMAT -- BEG BAL CORRECT CORRECT
TOTAL DBS TOTAL CRS
03360*
03370 DVLC ,L,958 ,L,468 ,L,958 09307 00021
03380 DVLC ,L,4172*100+8 ,L,59606*10+5 ,L,71804*10+2 09328 00021
03390 DVLC ,L,-26292 ,L,58763 ,L,50000 09349 00021
03400 DVLC ,L,35698*100+28 ,L,32368*100+53 ,L,35698*100+28 09370 00021
03410 DVLC ,L,15000 ,L,11500 ,L,15000 09391 00021
03420 DVLC ,L,9000 ,L,9500 ,L,9000 09412 00021
03430 DVLC ,L,11200*10 ,L,22650 ,L,6520 09433 00021
03440 DVLC ,L,0 ,L,3533 ,L,2000 09454 00021
03450 DVLC ,L,76000*10 ,L,56750*10 ,L,21670*10 09475 00021
03460 DVLC ,L,-21000*10 ,L,17670*10 ,L,9262 09496 00021

03470	DVLC	,L,23000*10.	,L,75000	,L,0	09517 00021
03480	DVLC	,L,-60000	,L,0	,L,1916	09538 00021
03490	DVLC	,L,42600*100	,L,0	,L,0	09559 00021
03500	DVLC	,L,-27658*100	,L,0	,L,0	09580 00021
03510	DVLC	,L,50000*10	,L,0	,L,0	09601 00021
03520	DVLC	,L,-14000*10	,L,14000*10	,L,30000*10	09622 00021
03530	DVLC	,L,-773	,L,773	,L,433	09643 00021
03540	DVLC	,L,-28049*10	,L,11833*100+87	,L,14411*100+47	09664 00021
03550	DVLC	,L,-26300	,L,0	,L,0	09685 00021
03560	DVLC	,L,-9450	,L,0	,L,0	09706 00021
03570	DVLC	,L,-15435	,L,0	,L,0	09727 00021
03580	DVLC	,L,-2205	,L,0	,L,0	09748 00021
03590	DVLC	,L,-61518	,L,0	,L,19509	09769 00021
03600	DVLC	,L,0	,L,0	,L,17500	09790 00021
03610	DVLC	,L,0	,L,0	,L,0	09811 00021
03620	DVLC	,L,0	,L,0	,L,0	09832 00021
03630	DVLC	,L,-12000*100	,L,0	,L,0	09853 00021
03640	DVLC	,L,-10000*100	,L,0	,L,0	09874 00021
03650	DVLC	,L,-30000*100	,L,0	,L,0	09895 00021
03660	DVLC	,L,-22000*10	,L,0	,L,0	09916 00021
03670	DVLC	,L,-11983*100-76	,L,0	,L,0	09937 00021
03680	DVLC	,L,0	,L,35698*100+28	,L,32368*100+53	09958 00021
03690	DVLC	,L,0	,L,0	,L,15714*100+93	09979 00021
03700	DVLC	,L,0	,L,22554	,L,0	10000 00021
03710	DVLC	,L,0	,L,9427	,L,0	10021 00021
03720	DVLC	,L,0	,L,59326*10+7	,L,0	10042 00021
03730	DVLC	,L,0	,L,50601	,L,0	10063 00021
03740	DVLC	,L,0	,L,0	,L,39500	10084 00021
03750	DVLC	,L,0	,L,0	,L,4560	10105 00021
03760	DVLC	,L,0	,L,12333	,L,0	10126 00021
03770	DVLC	,L,0	,L,21500	,L,0	10147 00021

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03780	DVLC	,L,0	,L,10320	,L,0	10168 00021	
03790	DVLC	,L,0	,L,9262	,L,0	10189 00021	
03800	DVLC	,L,0	,L,24705	,L,11500	10210 00021	
03810	DVLC	,L,0	,L,4340	,L,0	10231 00021	
03820	DVLC	,L,0	,L,6577	,L,0	10252 00021	
03830	DVLC	,L,0	,L,5167	,L,0	10273 00021	
03840	DVLC	,L,0	,L,0	,L,0	10294 00021	
03850	DVLC	,L,0	,L,0	,L,0	10315 00021	
03860	DVLC	,L,0	,L,50000	,L,0	10336 00021	
03870	DVLC	,L,0	,L,17600	,L,9500	10357 00021	
03880	DVLC	,L,0	,L,1916	,L,0	10378 00021	
03890	DVLC	,L,0	,L,20560	,L,0	10399 00021	
03900	DVLC	,L,0	,L,2180	,L,0	10420 00021	
03910	DVLC	,L,0	,L,50000	,L,0	10441 00021	
03920	DVLC	,L,0	,L,0	,L,0	10462 00021	
03930	DVLC	,L,0	,L,0	,L,0	10483 00021	
03940	DVLC	,L,0	,L,0	,L,0	10504 00021	
03950	DVLC	,L,0	,L,2094	,L,0	10525 00021	
03960	DVLC	,L,0	,L,958	,L,1618	10546 00021	
03970	DVLC	,L,0	,L,3833	,L,2306	10567 00021	
03980*	TRAILER					
03990	DC	L,*			10588 00007	
04000	ARNMI	DVLC	,L,20400	,L,28360	,L,20400	10595 00021
04010	DVLC	,L,18615	,L,50235	,L,18615	10616 00021	
04020	DVLC	,L,31500	,L,60398	,L,91898	10637 00021	
04030	DVLC	,L,25200	,L,31479	,L,56679	10658 00021	
04040	DVLC	,L,13352	,L,0	,L,13352	10679 00021	
04050	DVLC	,L,35700	,L,51971	,L,35700	10700 00021	
04060	DVLC	,L,53300	,L,87220	,L,14052*10	10721 00021	
04070	DVLC	,L,0	,L,37367	,L,0	10742 00021	
04080	DVLC	,L,19000	,L,21420	,L,40420	10763 00021	

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04530	DSA	L21+6,L22+6,L23+6,L24+6,L25+6,L26+6,L27+6,L28+6,L29+6,L30+6	11788 00005 12905
			11793 00005 12945
			11798 00005 13013
			11803 00005 13065
			11808 00005 13137
			11813 00005 13213
			11818 00005 13259
			11823 00005 13299
			11828 00005 13367
			11833 00005 13419
04540	DSA	L31+6,L32+6,L33+6,L34+6,L35+6,L36+6,L37+6,L38+6,L39+6,L40+6	11838 00005 13459
			11843 00005 13503
			11848 00005 13535
			11853 00005 13595
			11858 00005 13637
			11863 00005 13691
			11868 00005 13709
			11873 00005 13773
			11878 00005 13809
			11883 00005 13835
04550	DSA	L41+6,L42+6,L43+6,L44+6,L45+6,L46+6,L47+6,L48+6,L49+6,L50+6	11888 00005 13863
			11893 00005 13935
			11898 00005 13979
			11903 00005 14015
			11908 00005 14061
			11913 00005 14101
			11918 00005 14171
			11923 00005 14223
			11928 00005 14285
			11933 00005 14351
04560	DSA	L51+6,L52+6,L53+6,L54+6,L55+6,L56+6,L57+6,L58+6,L59+6,L60+6	11938 00005 14389
			11943 00005 14431
			11948 00005 14477
			11953 00005 14509
			11958 00005 14563
			11963 00005 14635
			11968 00005 14677
			11973 00005 14739
			11978 00005 14781
			11983 00005 14827
04570	DSA	L61+6,L62+6,L63+6,L64+6	11988 00005 14883
			11993 00005 14931
			11998 00005 14997
			12003 00005 15035
04580	DC	5, *	12008 00005
04590 L1	DAC	16,1111CASH IN BANK,,	12011 00032
04600 L2	DAC	14,1112PETTY CASH,,	12043 00028
04610 L3	DAC	20,1113NOTES RECEIVABLE,,	12071 00040
04620 L4	DAC	23,1114INTEREST RECEIVABLE,,	12111 00046
04630 L5	DAC	23,1115ACCOUNTS RECEIVABLE,,	12157 00046
04640 L6	DAC	27,1116ALLOWANCE FOR BAD DEBTS,,	12203 00054
04650 L7	DAC	25,1117MERCHANDISE INVENTORY,,	12257 00050
04660 L8	DAC	18,1118STORE SUPPLIES,,	12307 00036
04670 L9	DAC	19,1119OFFICE SUPPLIES,,	12343 00038
04680 L10	DAC	21,1120PREPAID INSURANCE,,	12381 00042
04690 L11	DAC	37,1121PREPAID INTEREST ON NOTES PAYABLE,,	12423 00074
04700 L12	DAC	19,1311STORE EQUIPMENT,,	12497 00038
04710 L13	DAC	37,1312ALLOW. FOR DEP. - STORE EQUIPMENT,,	12535 00074
04720 L14	DAC	20,1313OFFICE EQUIPMENT,,	12609 00040
04730 L15	DAC	38,1314ALLOW. FOR DEP. - OFFICE EQUIPMENT,,	12649 00076
04740 L16	DAC	12,1315BUILDING,,	12725 00024
04750 L17	DAC	30,1316ALLOW. FOR DEP. - BUILDING,,	12749 00060

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04760 L18	DAC	8,1317	LAND,,	,,	12809 00016
04770 L19	DAC	17,2111	NOTES PAYABLE,,	,,	12825 00034
04780 L20	DAC	20,2112	INTEREST PAYABLE,,	,,	12859 00040
04790 L21	DAC	20,2113	ACCOUNTS PAYABLE,,	,,	12899 00040
04800 L22	DAC	34,2114	EMPLOYEES INCOME TAXES PAYABLE,,	,,	12939 00068
04810 L23	DAC	26,2115	F.I.C.A. TAXES PAYABLE,,	,,	13007 00052
04820 L24	DAC	36,2116	STATE UNEMPLOYMENT TAXES PAYABLE,,	,,	13059 00072
04830 L25	DAC	38,2117	FEDERAL UNEMPLOYMENT TAXES PAYABLE,,	,,	13131 00076
04840 L26	DAC	23,2118	SALES TAXES PAYABLE,,	,,	13207 00046
04850 L27	DAC	20,2119	SALARIES PAYABLE,,	,,	13253 00040
04860 L28	DAC	34,2120	ESTIMATED INCOME TAXES PAYABLE,,	,,	13293 00068
04870 L29	DAC	26,2121	PROPERTY TAXES PAYABLE,,	,,	13361 00052
04880 L30	DAC	20,2211	MORTGAGE PAYABLE,,	,,	13413 00040
04890 L31	DAC	22,3111	PREFERRED 6% STOCK,,	,,	13453 00044
04900 L32	DAC	16,3112	COMMON STOCK,,	,,	13497 00032
04910 L33	DAC	30,3113	PREMIUM ON PREFERRED STOCK,,	,,	13529 00060
04920 L34	DAC	21,3114	RETAINED EARNINGS,,	,,	13589 00042
04930 L35	DAC	27,3115	PROFIT AND LOSS SUMMARY,,	,,	13631 00054
04940 L36	DAC	9,4111	SALES,,	,,	13685 00018
04950 L37	DAC	32,4112	SALES RETURNS AND ALLOWANCES,,	,,	13703 00064
04960 L38	DAC	18,4113	SALES DISCOUNT,,	,,	13767 00036
04970 L39	DAC	13,5111	PURCHASES,,	,,	13803 00026
04980 L40	DAC	14,5112	FREIGHT-IN,,	,,	13829 00028
04990 L41	DAC	36,5113	PURCHASES RETURNS AND ALLOWANCES,,	,,	13857 00072
05000 L42	DAC	22,5114	PURCHASES DISCOUNT,,	,,	13929 00044
05010 L43	DAC	18,6111	SALES SALARIES,,	,,	13973 00036
05020 L44	DAC	23,6112	ADVERTISING EXPENSE,,	,,	14009 00046
05030 L45	DAC	20,6113	DELIVERY EXPENSE,,	,,	14055 00040
05040 L46	DAC	35,6114	DEPRECIATION OF STORE EQUIPMENT,,	,,	14095 00070
05050 L47	DAC	26,6115	STORE SUPPLIES EXPENSE,,	,,	14165 00052
05060 L48	DAC	31,6116	INSURANCE EXPENSE - GENERAL,,	,,	14217 00062

05070 L49	DAC	33,6117	MISCELLANEOUS SELLING EXPENSE,,	,,	14279 00066
05080 L50	DAC	19,7111	OFFICE SALARIES,,	,,	14345 00038
05090 L51	DAC	21,7112	OFFICERS SALARIES,,	,,	14383 00042
05100 L52	DAC	23,7113	PAYROLL TAX EXPENSE,,	,,	14425 00046
05110 L53	DAC	16,7114	RENT EXPENSE,,	,,	14471 00032
05120 L54	DAC	27,7115	OFFICE SUPPLIES EXPENSE,,	,,	14503 00054
05130 L55	DAC	36,7116	DEPRECIATION OF OFFICE EQUIPMENT,,	,,	14557 00072
05140 L56	DAC	21,7117	UTILITIES EXPENSE,,	,,	14629 00042
05150 L57	DAC	31,7118	INSURANCE EXPENSE - GENERAL,,	,,	14671 00062
05160 L58	DAC	21,7119	BAD DEBTS EXPENSE,,	,,	14733 00042
05170 L59	DAC	23,7120	REPAIRS ON BUILDING,,	,,	14775 00046
05180 L60	DAC	28,7121	DEPRECIATION OF BUILDING,,	,,	14821 00056
05190 L61	DAC	24,7122	PROPERTY TAX EXPENSE,,	,,	14877 00048
05200 L62	DAC	33,7123	MISCELLANEOUS GENERAL EXPENSE,,	,,	14925 00066
05210 L63	DAC	19,8111	INTEREST INCOME,,	,,	14991 00038
05220 L64	DAC	20,9111	INTEREST EXPENSE,,	,,	15029 00040

05230** END OF G.L. LABELS **

05240*****

05250* *

05260* G.L. AND A.R. UPDATABLE TOTALS *

05270* *

05280*****

05290	DAC	1,*,,			15069 00002
05300 Y4	DS	,**1			15070 00000
05310*					
05320*	TRANSACTION USED SWITCHES				
05330*					
05340 TUSWS	DSC	50,0			15070 00050
05350	DSC	50,0			15120 00050
05360	DSC	25,0			15170 00025
05370 GLTDT	DVLC	,L,0	,L,0	,L,0	15201 00021

05380 P	DS	,GLTOT+2*L			15215 00000
05390	DVLC	,L,0	,L,0	,L,0	15222 00021
05400	DVLC	,L,0	,L,0	,L,0	15243 00021
05410	DVLC	,L,0	,L,0	,L,0	15264 00021
05420	DVLC	,L,0	,L,0	,L,0	15285 00021
05430	DVLC	,L,0	,L,0	,L,0	15306 00021
05440	DVLC	,L,0	,L,0	,L,0	15327 00021
05450	DVLC	,L,0	,L,0	,L,0	15348 00021
05460	DVLC	,L,0	,L,0	,L,0	15369 00021
05470	DVLC	,L,0	,L,0	,L,0	15390 00021
05480	DVLC	,L,0	,L,0	,L,0	15411 00021
05490	DVLC	,L,0	,L,0	,L,0	15432 00021
05500	DVLC	,L,0	,L,0	,L,0	15453 00021
05510	DVLC	,L,0	,L,0	,L,0	15474 00021
05520	DVLC	,L,0	,L,0	,L,0	15495 00021
05530	DVLC	,L,0	,L,0	,L,0	15516 00021
05540	DVLC	,L,0	,L,0	,L,0	15537 00021
05550	DVLC	,L,0	,L,0	,L,0	15558 00021
05560	DVLC	,L,0	,L,0	,L,0	15579 00021
05570	DVLC	,L,0	,L,0	,L,0	15600 00021
05580	DVLC	,L,0	,L,0	,L,0	15621 00021
05590	DVLC	,L,0	,L,0	,L,0	15642 00021
05600	DVLC	,L,0	,L,0	,L,0	15663 00021
05610	DVLC	,L,0	,L,0	,L,0	15684 00021
05620	DVLC	,L,0	,L,0	,L,0	15705 00021
05630	DVLC	,L,0	,L,0	,L,0	15726 00021
05640	DVLC	,L,0	,L,0	,L,0	15747 00021
05650	DVLC	,L,0	,L,0	,L,0	15768 00021
05660	DVLC	,L,0	,L,0	,L,0	15789 00021
05670	DVLC	,L,0	,L,0	,L,0	15810 00021
05680	DVLC	,L,0	,L,0	,L,0	15831 00021

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05690	DVLC	,L,0	,L,0	,L,0	15852 00021
05700	DVLC	,L,0	,L,0	,L,0	15873 00021
05710	DVLC	,L,0	,L,0	,L,0	15894 00021
05720	DVLC	,L,0	,L,0	,L,0	15915 00021
05730	DVLC	,L,0	,L,0	,L,0	15936 00021
05740	DVLC	,L,0	,L,0	,L,0	15957 00021
05750	DVLC	,L,0	,L,0	,L,0	15978 00021
05760	DVLC	,L,0	,L,0	,L,0	15999 00021
05770	DVLC	,L,0	,L,0	,L,0	16020 00021
05780	DVLC	,L,0	,L,0	,L,0	16041 00021
05790	DVLC	,L,0	,L,0	,L,0	16062 00021
05800	DVLC	,L,0	,L,0	,L,0	16083 00021
05810	DVLC	,L,0	,L,0	,L,0	16104 00021
05820	DVLC	,L,0	,L,0	,L,0	16125 00021
05830	DVLC	,L,0	,L,0	,L,0	16146 00021
05840	DVLC	,L,0	,L,0	,L,0	16167 00021
05850	DVLC	,L,0	,L,0	,L,0	16188 00021
05860	DVLC	,L,0	,L,0	,L,0	16209 00021
05870	DVLC	,L,0	,L,0	,L,0	16230 00021
05880	DVLC	,L,0	,L,0	,L,0	16251 00021
05890	DVLC	,L,0	,L,0	,L,0	16272 00021
05900	DVLC	,L,0	,L,0	,L,0	16293 00021
05910	DVLC	,L,0	,L,0	,L,0	16314 00021
05920	DVLC	,L,0	,L,0	,L,0	16335 00021
05930	DVLC	,L,0	,L,0	,L,0	16356 00021
05940	DVLC	,L,0	,L,0	,L,0	16377 00021
05950	DVLC	,L,0	,L,0	,L,0	16398 00021
05960	DVLC	,L,0	,L,0	,L,0	16419 00021
05970	DVLC	,L,0	,L,0	,L,0	16440 00021
05980	DVLC	,L,0	,L,0	,L,0	16461 00021
05990	DVLC	,L,0	,L,0	,L,0	16482 00021

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06000	DVLC	,L,0	,L,0	,L,0	16503 00021
06010	DVLC	,L,0	,L,0	,L,0	16524 00021
06020**	TRAILER				
06030	DC	L,*			16545 00007
06040	SPEC	DC	L,3569828,	, BEGINNING BAL ACCT 1117	16552 00007
06050	ARTOT	DVLC	,L,0	,L,0	16559 00021
06060	DVLC	,L,0	,L,0	,L,0	16580 00021
06070	DVLC	,L,0	,L,0	,L,0	16601 00021
06080	DVLC	,L,0	,L,0	,L,0	16622 00021
06090	DVLC	,L,0	,L,0	,L,0	16643 00021
06100	DVLC	,L,0	,L,0	,L,0	16664 00021
06110	DVLC	,L,0	,L,0	,L,0	16685 00021
06120	DVLC	,L,0	,L,0	,L,0	16706 00021
06130	DVLC	,L,0	,L,0	,L,0	16727 00021
06140	DVLC	,L,0	,L,0	,L,0	16748 00021
06150	DVLC	,L,0	,L,0	,L,0	16769 00021
06160	DVLC	,L,0	,L,0	,L,0	16790 00021
06170	DVLC	,L,0	,L,0	,L,0	16811 00021
06180	DVLC	,L,0	,L,0	,L,0	16832 00021
06190	DVLC	,L,0	,L,0	,L,0	16853 00021
06200	DVLC	,L,0	,L,0	,L,0	16874 00021
06210	DVLC	,L,0	,L,0	,L,0	16895 00021
06220	DVLC	,L,0	,L,0	,L,0	16916 00021
06230**	TRAILER				
06240	DC	L,*			16937 00007
06250***	END OF G.L., A.R. UPDATABLE TOTALS			***	
06260*****	*****				
06270*					
06280*	TRANSACTIONS BLOCK				
06290*					
06300*****	*****				

06310	DAC	1,*,,			16939 00002	
06320	Y5	DS	,*-1		16938 00000	
06330	X	DS	,ARTOT		16559 00000	
06340	T1	DVLC	,2,2,3,120	,L,9800	,L,200	16941 00019
06350	T2	DVLC	,2,1,3,001	,L,50000		16960 00012
06360	T3	DVLC	,2,1,3,100	,L,50000		16972 00012
06370	T4	DVLC	,2,-2,3,120,5,X+03*S	,L,24696	,L,504	16984 00024
06380	T5	DVLC	,2,-2,3,120,5,X+12*S	,L,39494	,L,806	17008 00024
06390	T6	DVLC	,2,2,3,120	,L,19600	,L,400	17032 00019
06400	T7	DVLC	,2,2,3,120	,L,24500	,L,500	17051 00019
06410	T8	DVLC	,2,2,3,120	,L,21560	,L,440	17070 00019
06420	T9	DVLC	,2,-1,3,000,5,X	,L,28360		17089 00017
06430	T10	DVLC	,2,-1,3,000,5,X+07*S	,L,37367		17106 00017
06440	T11	DVLC	,2,-2,3,120,5,X+08*S	,L,18620	,L,380	17123 00024
06450	T12	DVLC	,2,-2,3,120,5,X+06*S	,L,52234	,L,1066	17147 00024
06460	T13	DVLC	,2,-1,3,100,5,X+05*S	,L,35700		17171 00017
06470	T14	DVLC	,2,2,3,002	,L,10000*10	,L,14750*10	17188 00019
06480	T15	DVLC	,2,1,3,100	,L,14750*10		17207 00012
06490	T16	DVLC	,2,1,3,001	,L,3620		17219 00012
06500	T17	DVLC	,2,1,3,100	,L,3620		17231 00012
06510	T18	DVLC	,2,1,3,001	,L,87640		17243 00012
06520	T19	DVLC	,2,1,3,001	,L,69580		17255 00012
06530	T20	DVLC	,2,2,3,120	,L,4900	,L,100	17267 00019
06540	T21	DVLC	,2,-1,3,000,5,X+03*S	,L,31479		17286 00017
06550	T22	DVLC	,2,-2,3,120,5,X+10*S	,L,20384	,L,416	17303 00024
06560	T23	DVLC	,2,-2,3,120,5,X+02*S	,L,30870	,L,630	17327 00024
06570	T24	DVLC	,2,2,3,200	,L,4503	,L,23279*10+3	17351 00019
06580	T25	DVLC	,2,-1,3,100,5,X+13*S	,L,10025		17370 00017
06590	T26	DVLC	,2,1,3,001	,L,25960		17387 00012
06600	T27	DVLC	,2,2,3,002	,L,1000	,L,10100*10	17399 00019
06610	T28	DVLC	,2,1,3,100	,L,10100*10		17418 00012

06620 T29	DVLC	,2,2 ,3,120	,L,9900	,L,100	17430 00019
06630 T30	DVLC	,2,2 ,3,120	,L,7425	,L,75	17449 00019
06640 T31	DVLC	,2,-1,3,000,5,X+15*S,L,50000			17468 00017
06650 T32	DVLC	,2,-1,3,000,5,X+02*S,L,60398			17485 00017
06660 T33	DVLC	,2,-1,3,000,5,X+06*S,L,87220			17502 00017
06670 T34	DVLC	,2,-1,3,000,5,X+01*S,L,18615			17519 00017
06680 T35	DVLC	,2,1 ,3,000	,L,15000		17536 00012
06690 T36	DVLC	,2,-2,3,200,5,X+12*S,L,400		,L,40400	17548 00024
06700 T37	DVLC	,2,-1,3,100,5,X+11*S,L,20253			17572 00017
06710 T38	DVLC	,2,-1,3,100,5,X	,L,20400		17589 00017
06720 T39	DVLC	,2,1 ,3,001	,L,7550		17606 00012
06730 T40	DVLC	,2,1 ,3,001	,L,20952		17618 00012
06740 T41	DVLC	,2,-1,3,000,5,X+04*S,L,13352			17630 00017
06750 T42	DVLC	,2,2 ,3,120	,L,4900	,L,100	17647 00019
06760 T43	DVLC	,2,1 ,3,100	,L,11762		17666 00012
06770 T44	DVLC	,2,-1,3,000,5,X+08*S,L,21420			17678 00017
06780 T45	DVLC	,2,1 ,3,001	,L,3500		17695 00012
06790 T46	DVLC	,2,1 ,3,001	,L,1500		17707 00012
06800 T47	DVLC	,2,1 ,3,100	,L,3500		17719 00012
06810 T48	DVLC	,2,1 ,3,100	,L,1500		17731 00012
06820 T49	DVLC	,2,-1,3,000,5,X+09*S,L,9180			17743 00017
06830 T50	DVLC	,2,-1,3,000,5,X+12*S,L,71910			17760 00017
06840 T51	DVLC	,2,2 ,3,002	,L,400	,L,40400	17777 00019
06850 T52	DVLC	,2,1 ,3,001	,L,4000		17796 00012
06860 T53	DVLC	,2,1 ,3,001	,L,3250		17808 00012
06870 T54	DVLC	,2,1 ,3,100	,L,40400		17820 00012
06880 T55	DVLC	,2,1 ,3,100	,L,4000		17832 00012
06890 T56	DVLC	,2,1 ,3,100	,L,3250		17844 00012
06900 T57	DVLC	,2,2 ,3,120	,L,86764	,L,876	17856 00019
06910 T58	DVLC	,2,-1,3,000,5,X+06*S,L,9690			17875 00017
06920 T59	DVLC	,2,2 ,3,200	,L,4218	,L,21477*10+8	17892 00019

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06930 T60	DVLC	,2,1 ,3,001	,L,2115		17911 00012
06940 T61	DVLC	,2,1 ,3,100	,L,2115		17923 00012
06950 T62	DVLC	,2,2 ,3,200	,L,750	,L,50750	17935 00019
06960 T63	DVLC	,2,1 ,3,001	,L,22650		17954 00012
06970 T64	DVLC	,2,1 ,3,001	,L,2240		17966 00012
06980 T65	DVLC	,2,1 ,3,001	,L,10902*10		17978 00012
06990 T66	DVLC	,2,1 ,3,100	,L,22650		17990 00012
07000 T67	DVLC	,2,1 ,3,100	,L,2240		18002 00012
07010 T68	DVLC	,2,-1,3,000,5,X+16*S,L,86700			18014 00017
07020 T69	DVLC	,2,-2,3,120,5,X+03*S,L,30849		,L,630	18031 00024
07030 T70	DVLC	,2,2 ,3,200	,L,2000	,L,19800*10	18055 00019
07040 T71	DVLC	,2,-1,3,000,5,X+17*S,L,58763			18074 00017
07050 T72	DVLC	,2,4 ,3,004	,L,40000	,L,20000*10	18091 00019
07060	DVLC		,L,17500 *10	,L,28000*10	18115 00014
07070 T73	DVLC	,2,1 ,3,100	,L,28000*10		18124 00012
07080 T74	DVLC	,2,2 ,3,120	,L,53488	,L,1092	18136 00019
07090 T75	DVLC	,2,-1,3,000,5,X+11*S,L,23715			18155 00017
07100 T76	DVLC	,2,-2,3,120,5,X+02*S,L,59190		,L,1208	18172 00024
07110 T77	DVLC	,2,-2,3,120,5,X+06*S,L,75979		,L,1551	18196 00024
07120 T78	DVLC	,2,-2,3,120,5,X+08*S,L,20992		,L,428	18220 00024
07130 T79	DVLC	,2,-1,3,000,5,X+12*S,L,6550			18244 00017
07140 T80	DVLC	,2,2 ,3,200	,L,4853	,L,25006*10+3	18261 00019
07150 T81	DVLC	,2,1 ,3,000	,L,24500		18280 00012
07160 T82	DVLC	,2,-2,3,120,5,X+12*S,L,64053		,L,1307	18292 00024
07170 T83	DVLC	,2,-1,3,000,5,X+01*S,L,50235			18316 00017
07180 T84	DVLC	,2,1 ,3,001	,L,6530		18333 00012
07190 T85	DVLC	,2,1 ,3,100	,L,6530		18345 00012
07200 T86	DVLC	,2,1 ,3,001	,L,92020		18357 00012
07210 T87	DVLC	,2,1 ,3,001	,L,75000		18369 00012
07220 T88	DVLC	,2,1 ,3,100	,L,7500		18381 00012
07230 T89	DVLC	,2,1 ,3,100	,L,75000		18393 00012

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07240 T90	DVLC	,2,1 ,3,001	,L,17500		18405 00012
07250 T91	DVLC	,2,1 ,3,100	,L,17500		18417 00012
07260 T92	DVLC	,2,1 ,3,001	,L,65200		18429 00012
07270 T93	DVLC	,2,1 ,3,001	,L,54260		18441 00012
07280 T94	DVLC	,2,-1,3,000,5,X+16*S,L,4692			18453 00017
07290 T95	DVLC	,2,-1,3,000,5,X+14*S,L,36110			18470 00017
07300 T96	DVLC	,2,-1,3,000,5,X+05*S,L,51971			18487 00017
07310 T97	DVLC	,2,2 ,3,120	,L,31026	,L,313	18504 00019
07320 T98	DVLC	,2,2 ,3,120	,L,32195	,L,305	18523 00019
07330 T99	DVLC	,2,2 ,3,120	,L,5841	,L,59	18542 00019
07340 T100	DVLC	,2,2 ,3,200	,L,3980	,L,20498*10+3	18561 00019
07350 T101	DVLC	,2,-2,3,120,5,X+11*S,L,23241		,L,474	18580 00024
07360 T102	DVLC	,2,1 ,3,001	,L,94595		18604 00012
07370 T103	DVLC	,2,1 ,3,001	,L,6205		18616 00012
07380 T104	DVLC	,2,1 ,3,001	,L,17175		18628 00012
07390 T105	DVLC	,2,1 ,3,001	,L,3385		18640 00012
07400 T106	DVLC	,2,1 ,3,001	,L,11846		18652 00012
07410 T107	DVLC	,2,1 ,3,001	,L,10320		18664 00012
07420 T108	DVLC	,2,4 ,3,004	,L,1034	,L,1622	18676 00019
07430	DVLC		,L,1978	,L,4634	18700 00014
07440 T109	DVLC	,2,1 ,3,100	,L,17175		18709 00012
07450 T110	DVLC	,2,1 ,3,100	,L,3385		18721 00012
07460 T111	DVLC	,2,1 ,3,100	,L,11846		18733 00012
07470 T112	DVLC	,2,1 ,3,100	,L,10320		18745 00012
07480 T113	DVLC	,2,1 ,3,100	,L,4634		18757 00012
07490 T114	DVLC	,2,2 ,3,200	,L,1796	,L,92161	18769 00019
07500 T115	DVLC	,2,2 ,3,000	,L,35698*100+28,L,32368*100+53		18788 00019
07510 T116	DVLC	,2,2 ,3,000	,L,15000	,L,11500	18807 00019
07520 T117	DVLC	,2,2 ,3,000	,L,9000	,L,9500	18826 00019
07530 T118	DVLC	,2,2 ,3,000	,L,4340	,L,2180	18845 00019
07540 T119	DVLC	,2,1 ,3,000	,L,468		18864 00012

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07550 T120	DVLC	,2,1 ,3,000	,L,433		18876 00012
07560 T121	DVLC	,2,1 ,3,000	,L,1533		18888 00012
07570 T122	DVLC	,2,2 ,3,000	,L,12333	,L,5167	18900 00019
07580 T123	DVLC	,2,1 ,3,000	,L,159		18919 00012
07590 T124	DVLC	,2,1 ,3,000	,L,50000		18931 00012
07600 T125	DVLC	,2,2 ,3,000	,L,7562	,L,1916	18943 00019

07610*** END OF TRANSACTIONS ***

07630** FOLLOWING IS THE TRANSACTION LOCATING VECTOR TABLE **

07640 TTABLE DSA	T1,T2,T3,T4,T5,T6,T7,T8,T9,T10				18965 00005 16941
					18970 00005 16960
					18975 00005 16972
					18980 00005 16984
					18985 00005 17008
					18990 00005 17032
					18995 00005 17051
					19000 00005 17070
					19005 00005 17089
					19010 00005 17106
					19015 00005 17123
					19020 00005 17147
					19025 00005 17171
					19030 00005 17188
					19035 00005 17207
					19040 00005 17219
					19045 00005 17231
					19050 00005 17243
					19055 00005 17255
					19060 00005 17267
					19065 00005 17286
					19070 00005 17303

07660 DSA T21,T22,T23,T24,T25,T26,T27,T28,T29,T30

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07670 DSA T31,T32,T33,T34,T35,T36,T37,T38,T39,T40

07680 DSA T41,T42,T43,T44,T45,T46,T47,T48,T49,T50

07690 DSA T51,T52,T53,T54,T55,T56,T57,T58,T59,T60

07700 DSA T61,T62,T63,T64,T65,T66,T67,T68,T69,T70

07710 DSA T71,T72,T73,T74,T75,T76,T77,T78,T79,T80

07720 DSA T81,T82,T83,T84,T85,T86,T87,T88,T89,T90

19075 00005 17327
19080 00005 17351
19085 00005 17370
19090 00005 17387
19095 00005 17399
19100 00005 17418
19105 00005 17430
19110 00005 17449
19115 00005 17468
19120 00005 17485
19125 00005 17502
19130 00005 17519
19135 00005 17536
19140 00005 17548
19145 00005 17572
19150 00005 17589
19155 00005 17606
19160 00005 17618
19165 00005 17630
19170 00005 17647
19175 00005 17666
19180 00005 17678
19185 00005 17695
19190 00005 17707
19195 00005 17719
19200 00005 17731
19205 00005 17743
19210 00005 17760
19215 00005 17777
19220 00005 17796
19225 00005 17808

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19230 00005 17820
19235 00005 17832
19240 00005 17844
19245 00005 17856
19250 00005 17875
19255 00005 17892
19260 00005 17911
19265 00005 17923
19270 00005 17935
19275 00005 17954
19280 00005 17966
19285 00005 17978
19290 00005 17990
19295 00005 18002
19300 00005 18014
19305 00005 18031
19310 00005 18055
19315 00005 18074
19320 00005 18091
19325 00005 18124
19330 00005 18136
19335 00005 18155
19340 00005 18172
19345 00005 18196
19350 00005 18220
19355 00005 18244
19360 00005 18261
19365 00005 18280
19370 00005 18292
19375 00005 18316
19380 00005 18333

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07730 DSA T91,T92,T93,T94,T95,T96,T97,T98,T99,T100

07740 DSA T101,T102,T103,T104,T105,T106,T107,T108,T109,T110

07750 DSA T111,T112,T113,T114,T115,T116,T117,T118,T119,T120

07760 DSA T121,T122,T123,T124,T125

07770** TRAILER IN TRANSACTION TABLE

07780 DC 5,*

07790 DAC 1,*,,

07800 X5 DS ,*-1

07810*** THE PROBLEM HEADER SECTOR ***

07820 HEDDR DS ,19600

07830 DORG HEDDR

07840*

07850* THE FOLLOWING ARE RELOCATED BY WISAL BUT NOT DESTROYED

07860*

07870 HEDDSA DSA ISLBI,ITABLE,LONMI,ARNMI,ARLBI,LTABLE,GLTOT,ARTOT,ITABLE,125

07880* ISLPI IS START OF INCOME ST. AND BAL. SHEET LABELS

19385 00005 18345
19390 00005 18357
19395 00005 18369
19400 00005 18381
19405 00005 18393
19410 00005 18405
19415 00005 18417
19420 00005 18429
19425 00005 18441
19430 00005 18453
19435 00005 18470
19440 00005 18487
19445 00005 18504
19450 00005 18523
19455 00005 18542
19460 00005 18561
19465 00005 18580
19470 00005 18604
19475 00005 18616
19480 00005 18628
19485 00005 18640
19490 00005 18652
19495 00005 18664
19500 00005 18676
19505 00005 18709
19510 00005 18721
19515 00005 18733
19520 00005 18745
19525 00005 18757
19530 00005 18769
19535 00005 18788

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19540 00005 18807
19545 00005 18826
19550 00005 18845
19555 00005 18864
19560 00005 18876
19565 00005 18888
19570 00005 18900
19575 00005 18919
19580 00005 18931
19585 00005 18943

19590 00005
19593 00002
19592 00000

19600 00000
19600

19604 00005 04927
19609 00005 08910
19614 00005 09244
19619 00005 10595
19624 00005 10975
19629 00005 11688
19634 00005 15201
19639 00005 16559
19644 00005 18965
19649 00005 00125

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07890* ITABLE IS VECTOR TABLE FROM I.S.+B.S.LABELS TO G.L.TOTS
 07900* LDNM1 IS START OF G.L. CONSTANTS
 07910* ARNM1 IS START OF A.R. CONSTANTS
 07920* ARLB1 IS START OF A.R. LABELS
 07930* LTABLE IS START OF VECTOR TABLE TO G.L. LABELS
 07940* GLTOT IS START OF G.L. UPDATABLE TOTALS
 07950* ARTOT IS START OF A.R. UPDATABLE TOTALS
 07960* TTABLE IS START OF TRANSACTIONS VECTOR TABLE
 07970* 125 IS NO. OF TRANSACTIONS IN THIS PROBLEM
 07980*

07990* THE FOLLOWING ARE USED BY WISAL, MAY BE DESTROYED
 08000*

08010 HEDDSB DSA Y1,Y2,Y3,Y4,Y5,X5

19654 00005 04926
 19659 00005 09236
 19664 00005 11682
 19669 00005 15070
 19674 00005 16938
 19679 00005 19592
 19681 00002

08020 LDSA DVLC ,2,L

08030* Y1 IS START OF I.S. + B.S. BLOCK
 08040* Y2 IS START OF G.L. + A.R. CONSTANTS BLOCK
 08050* Y3 IS START OF G.L. LABELS BLOCK
 08060* Y4 IS START OF UPDATABLE BLOCK
 08070* Y5 IS START OF TRANSACTIONS BLOCK
 08080* X5 IS END OF TRANSACTIONS BLOCK
 08090* L IS LENGTH OF A WISAL FIELD
 08100*
 08110*

08120* DURING THE FIRST WISAL TRA-TCO, THIS WHOLE PROBLEM IS
 08130* CALLED INTO CORE IN CORE IMAGE FORMAT
 08140* IT IS THEN WRITTEN OUT TO THE WORK CYLINDERS AS FOLLOWS--

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08150*

08160* G.L.LABEL BLOCK, VECTORS RELOCATED, IS WRITTEN OUT FOR PHASE B USE
 08170* TRANSACTION BLOCK, VECTORS RELOCATED, FOR PHASE C USE
 08180* G.L. + A.R. LABELS + CONSTANTS FOR PHASE D1 USE
 08190* I.S. + B.S. LABELS FOR PHASE D2 USE
 08200* AND, AFTER POSSIBLE UPDATING BY *PRECODE RECORDS,
 08210* THE UPDATABLE G.L. AND A.R. TOTALS ARE WRITTEN OUT
 08220* FOR USE OF PHASES C, D1, D2
 08230* THE ASSOCIATED SWITCH SETTINGS ARE ALSO WRITTEN OUT
 08240*

08250 DSA WPC,DATEP,MONTH,DATEP

19686 00005 19767
 19691 00005 19833
 19696 00005 19899
 19701 00005 19833

08260 WPC DSAC 33, THE WHOLESALE PAPER CO. ,, THESE HEADING TITLES
 08270 DATEP DSAC 33, APRIL 30, 1964 ,, SHOULD ALL BE
 08280 MONTH DSAC 33, MONTH ENDED APRIL 30, 1964 ,, 33 ALPHA LONG

19767 00066
 19833 00066
 19899 00066

08290*

08300* IF YOU DO NOT WISH TO HAVE THE SAME THING FOR THE
 08310* THIRD LINE OF G.L. AND B.S. HEADINGS, AS DATEP ABOVE,
 08320* YOU WILL HAVE TO CHANGE HEDDR TO 19500 IN THIS AND INWISAL
 08330*

08340 DEND 796

00796

SYMBOL TABLE

WHOCOM 03546	UPCCL6 10394	TWOME2 08463	TWOMES 08409	TOTARS 08215
TOSWAD 07812	TITSAV 02891	TITLES 19686	TITLBF 07074	TITLAE 03197
TFLBIS 08234	TFLABD 08390	TFARLB 09050	SOMAMT 09046	SMINUS 09154
SETSWS 08208	RPAREN 09163	RMSCAN 03860	PUTADJ 02530	PRINT1 03312
PHCRS 03325	PHBERS 03322	PHASA1 03888	QVBMES 10073	OUTSWL 07446
OUTPUT 03063	OUTJOT 09962	OUTLIN 07806	ORIGDA 04132	UNESA1 03886
OBDSA2 10758	NUMAMT 09134	NTITAZ 03313	NOTUCH 07414	NOSKIP 08328
NOCOL7 07010	NOCMES 07335	NOAMTS 09057	NLBMES 08625	MURYET 08970
MONCAL 00796	MLPRSW 02523	LSMNEM 06923	LSCANS 08302	LPAREN 09022
LOWEST 02302	LSCAND 08090	LASWOK 07706	LABCHK 06938	KBADMS 08467
ISLOOP 08090	ISHTAB 08293	INCSTA 08165	HEDLIN 07480	HEDDSB 19654
HEDDSA 19604	GOGGGO 03166	GLOOP 08282	GETADJ 02618	FORTHG 07888
FINL7E 07822	ERPRNT 03744	ENDWDS 02863	ENDBAL 08099	DZTERO 10640
DUPLAB 07926	DSWNLB 09576	DPUNCH 03335	UISAMT 09014	DCDSA2 09571
CREDIT 08961	CHOVLP 03130	CCZERO 08115	HTITL2 07355	HTITL1 07255
BEGND2 08006	BEGINC 09420	BEGINB 10938	BEGUAL 08037	BADLAB 07959
BADACT 10875	ARTCT4 08193	ARTOT3 08186	ARTUT2 08179	ARTOT1 08172
ARLOOP 08966	AMDSA2 10437	ALPHAN 10819	ALLDUN 10010	ADMNA2 03207
ADMINC 07841	ACTE2 08019	ACTMES 09933	ACLAB 07502	AD 06929
ADD 08926	ADJF 02809	ADMIN 07465	ADREG 10828	ADV 08596
AGCGO 08484	AMB 07562	AMBA 10638	AMH2 09078	AMDSA 10417
AMFND 10262	AMMES 10837	AMT 09004	AMTN 10454	AMTSW 03058
ARBNF 09026	ARLA 03916	ARTB 08281	ASH 08995	ASTS 07971
A4DSA 04014	A4ICD 03908	A5DSA 04010	ASTCU 03916	BADDC 10837
BADRP 09681	BALSH 09625	BB2 08200	BOL 08138	BDNN 07692
BING 10605	BINGU 09858	BLLIN 07374	BLSUP 08080	BNF2 03594
CAFND 09716	CAP 08128	LARD 02882	CASH 09088	CA2 03220
CCA2 03311	CCC 07194	CCDL 08091	CDVSW 03057	CFDD 02662
CLAB 07738	CLABI 09404	CLDSA 09598	CLR 03345	CLRSN 09660
CMC 03164	CM42 08470	CNT 08235	CNTBD 07254	COL 08697
CGNT 08794	CRFND 09432	CRIT1 02526	CRIT3 02529	CRS 07780
CSFND 10614	CTCD 09480	CUST 09031	CZERU 10923	C1 08686
CIT 10612	C2T 10619	C23D1 07213	C3T 10626	C4T 10633
C70B 10790	DBFND 09412	DCSW 03052	DD 02712	DDATR 02578
DEBIT 08930	DISC 09068	DKADJ 02618	DLMES 08021	DD 09366
DGAR3 09194	DCAR4 09278	DOFL3 08510	DOFL4 08582	DSFND 09736
DIDSA 10190	DITCD 10000	D2DSA 10745	D2TCD 10662	EDAR1 09098
EDAR2 09182	EDCM 07078	EDGL1 08438	EDGL2 08498	EDIS 08138
EDIT 06938	EDITA 07371	EDITE 07341	EDITF 07311	EDITQ 08583
ENDA1 03880	ENDB 11033	ENDC 09419	ENDD1 09625	ENDD2 10661
ENDRT 10806	ENC 02321	FLD1 07976	FLD2 07981	FLD3 07986
FLD4 07991	FLB3 07996	FLFX 07725	FLFY 10291	FLE2 07771
FLY 10335	GETA2 03060	GETNO 04226	GLBNF 08366	GLEDG 09999
GLQUT 09626	GCOF 10477	GOTOF 09268	HAVIT 08718	HDSA 03880

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HEDDR 19600	HEND 09419	HGLAB 10798	HUSW 10404	IFEND 08794
IFNUM 08518	INPIT 02721	INSAD 09974	INST 10829	ISBNF 08114
ISb7 08282	ISC 08952	ISLAB 07466	KBAD 08434	KJ 09626
KK 09670	KL 09528	KM 09424	KN 09368	KD 09348
KP 09328	KO 09308	KR 09288	KS 09268	KT 09248
KU 09228	KV 09208	KW 09152	KX 09132	KY 09112
KZ 09056	KO 08603	K1 08628	K2 08560	K3 08672
K4 08716	K41 07850	K5 08808	K51 07708	K6 08900
K61 07536	K7 08968	K71 07436	K8 09000	K9 08540
L 00007	LBDSA 11164	LCSW 03326	LDSA 19681	LITS 09005
LNTH 03000	LPRD 07206	LPFND 09172	LPSW 03056	LSTED 07214
MINUS 09128	MMIS 08246	MNFND 09248	MONNS 10223	NNNN 10474
NOEND 08874	NOGO 07506	NOMMS 07675	NOPRD 10072	NOTE 10559
NSUBL 08858	NTITC 07843	NUAD 02565	NULAB 08044	NXT 09378
OBDSA 10733	ORJ 10821	OBJAD 10834	OBMES 10837	OBWS 03053
OMES 03792	ODG 10372	ORGI 02612	OUTC 07090	OUTC2 07158
OUTC3 07170	OUTED 07186	OVBM2 10177	OVERB 10028	OVLAP 03002
QVMES 03047	PLFND 09228	PLUS 09113	PRIN 02836	PRINT 03304
PRSW 02527	PSFEK 08164	PSW 03582	PUNCH 03327	QCEND 08284
R 00021	RECM 03870	RBNR 03656	RHSW 08611	READ 03424
RETA1 04028	RCHK 03572	RMERK 03616	RMES 03481	RNTY 04218
RPCSA 09596	RPFND 09612	RSAMT 09828	S 00021	SAVA1 19900
SCAN 08662	SFC2 09896	SEC3 09864	SEER 09894	SFSW 03059
SGSW 03054	SGW2 03056	SLMES 09275	SLKIC 09354	SM7 03618
SNEG 09932	SPLUS 09145	SPDS 09944	SSUPP 08494	STOR1 10647
STCR2 10654	STOR3 10661	SUBAD 09365	SWELL 09524	S2 03582
TBNR 08870	TBX 10283	TCDR 11034	TCMC 07102	TDED 07133
TDMJ 08264	TDMTR 08272	TDNUM 08554	TDX 09456	TEMPC 07880
TFLR 10510	TFO2 08210	TFNO 08766	TIMES 08007	TITL 07455
TITLC 07831	TITLU 07580	TUTCR 03057	TUTDR 08077	TRA1 03834
TRA2 03208	TRA4 03968	TRA5 03964	TRLAB 07798	TRSC 07628
TRSW 08100	TWESC 09410	UPCOL 08607	UPS2 03630	VCFND 09756
VKADJ 02786	VPC2 09053	WC 02302	WCDD 02604	WHATP 04112
WHCP 10698	WLCM 09757	WLRC 02921	WPRB 04153	XREFB 07073
XREFC 07821	145 10805			

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00010*****
00020*
00030*          WISAL  --  WISCONSIN-S ACCOUNTING LANGUAGE          *
00040*
00050*          PROCESSOR FOR 1620 MODEL 1 OR 2 WITH 1311 DISK    *
00060*          NO SPECIAL FEATURES                                  *
00070*          CARD OR PRINTER OUTPUT, CARD INPUT                 *
00080*
00090*          CRAIG MACKENNA -- UNIVERSITY OF WISCONSIN - MILWAUKEE *
00100*          JULY 1, 1966                                         *
00110*
00120*****
00130*
00140*          SYMBOLIC PARAMETERS
00150*
00160*          THE FOLLOWING MAY BE VARIED INDEPENDENTLY
00170 L   DS   ,7,          LENGTH OF WISAL FIELD                00007 00000
00180 LNTH DS   ,3000,     CORE ALLOTTED FOR STUDENT PROGRAMS, LOG ENTRYS 03000 00000
00190 HEDDR DS   ,19600,   CORE ADDRESS STARTING PROBLEM HEADER      19600 00000
00200 LOWEST DS  ,2302,    LOWEST CORE USED -- BEGINNING DORG -- DDA-S 02302 00000
00210 MONCAL DS  ,796,     THIS SHOULD NOT BE VARIED TOD INDEPENDENTLY 00796 00000
00220*
00230*          OTHER DERIVED SYMBOLS
00240 R   DS   ,3*L,       LENGTH OF A LEDGER ACCOUNT IN CONSTANT BLOCK 00021 00000
00250 S   DS   ,3*L,       LENGTH OF A LEDGER ACCOUNT IN UPDATABLE BLOCK 00021 00000
00260 HEDDSA DS   ,HEDDR+4
00270 HEDDSB DS   ,HEDDSA+10*5
00280 LDSA  DS   ,HEDDSB+5*5+2
00290 TITLES DS  ,LDSA+5
00300 DORG  DORG  LOWEST
00310 EWC   DSB  20,11,,   TRANSFER DDA AREA                      02321 00220
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00320 WC   DS   ,EWC-19
00330*
00340*          PARAMETER SWITCHES AND ALLOWABLE ERROR COUNTS
00350*          MAY BE CHANGED IN OBJECT OR SOURCE BY USER
00360*
00370 PRSW DC   1,1,, DSC 1,0 IF NO PRINTER                      02522 00001
00380 MLPRSW DSC 1,0,, 1 IF MULTIPLE PROBLEMS                    02523 00001
00390 CRIT1 DC  3,10,,ALLOWABLE LANGUAGE ERRORS                  02526 00003
00400 CRIT3 DC  3,15,,ALLOWABLE REFERENCE ERRORS                 02529 00003
00410*
00420*          ROUTINE TO WRITE PROBLEM AND PROCESSOR BLOCKS TO WKCYLS
00430*
00440 PUTADJ PUT  WCDD,RBC
00450 TFM   C+13,*-*
00460 NUAD  DS   ,*
00470 AM    **18,20,10
00480 DDATR TR  WC,WC,2
00490 A     WC+5,WC+8
00500 BB2
00510 WCDD  DD   ,WC,,A,    WISAL WILL UPDATE TO WORK CYLINDERS ITSELF
02530 16 00565 02553
02542 49 00520 02504
02554 16 02315 00000
02565 00000
02566 11 02584 00020
02578 31 02302 02302
02590 21 02307 02310
02602 42 00000 00000
02604 00002 22
02606 00005 02302
02611 00001
00520*****
00530*
00540*          PHASE A1  --  CALL LOAD THE PROBLEM
00550*          WRITE IT OUT TO WORK CYLINDERS IN BLOCKS
00560*          RELOCATED, AND CHECK FOR CORE OVERLAP
00570*
00580*****
00590*

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00600*          PHASE A1 ROUTINE TO COMPUTE A NEW CORE ADDRESS
00610*          OF A PROBLEM BLOCK GIVEN THE LINKAGE
00620*
00630*          BTM DKADJ,**16
00640*          DSA OLDHI,OLDLO,NUHI
00650*          WHERE OLDHI IS THE ADDRESS OF THE PRESENT UPPER LIMIT
00660*          OLDLO IS THE ADDRESS OF THE PRESENT LO-CORE
00670*          NUHI IS THE ADDRESS OF THE EXECUTION UPPER LIMIT
00680*
00690 ORGI  NOP                      02612 41 00000 00000
00700      DORG  *-5                    02618
00710 DKADJ SF    *-1                    02618 32 02617 00000
00720      TF    WC+10,DKADJ-1,11        02630 26 02312 02517
00730      SM    DKADJ-1,5,10            02642 12 02617 00005
00740      S     WC+10,DKADJ-1,11        02654 22 02312 02517
00750      TF    WC+13,DKADJ-1,11        02666 26 02315 02517
00760      AM    WC+8,1,10,   LENGTH OF BLOCK UP TO NEXT HUNDRED 02678 11 02310 00001
00770      SM    DKADJ-1,5,10            02690 12 02617 00005
00780      TF    NUAD,DKADJ-1,11         02702 26 02565 02517
00790      S     NUAD-2,WC+8              02714 22 02563 02310
00800      TF    ADJF,NUAD                 02726 26 02809 02565
00810      S     ADJF,WC+13                02738 22 02809 02315
00820      CF    DKADJ-1                   02750 33 02617 00000
00830      AM    DKADJ-1,2,10              02762 11 02617 00002
00840      B     DKADJ-1,,6                02774 49 02617 00000
00850*
00860*          ROUTINE TO RELOCATE A VECTOR TABLE FROM THE
00870*          PARAMETERS CALCULATED BY THE ABOVE
00880*
00890 VKADJ TF    **18,**-1,11           02786 26 02804 02785
00900      AM    **,,**                      02798 11 00000 00000
00910 ADJF DS     ,*                      02809 00000
00920      AM    *-6,5,10                  02810 11 02804 00005
00930      BNR   *-2,,*-18,11             02822 45 02798 02804
00940      BB2
00950*
00960*          MAINLINE PHASE A1, COMING IN FROM BACK PART OF A1
00970*          CALL LOAD THE PROBLEM
00980 PRIN CALL  LOAD,361,,  **CHANGE IF PROBLEM NOT DIM NO. 361**
00990*          NOW CHECK PROBLEM HEADER
01000      CM    LDSA,L,10                  02836 16 00565 02855
01010      RE    CHGVLP,,,   IS L THE SAME 02848 49 00716 00000
01020      RCTY
01030      WATY  WLRC                       02855 00007 3200361
01040      CALL  EXIT                       02862 00001
01050 WLRC  DAC  41,WISAL VS. PROBLEM FIELD LENGTH NON-MATCH' 02864 14 19681 00007
01060 OVLAP TF    OVMES+80,**-1           02876 46 03130 01200
01070      RCTY
01080      WATY  OVMES                       02888 34 00000 00102
01090      CALL  EXIT                       02900 39 02921 00100
01100 OVMES DAC  42,CORE OVERLAP, PROBLEM WITH WISAL PHASE ..' 02912 49 00796 00000
01110 CHOVLP CM  HEDDSB,ENDAI             02921 00082
01120      RH    GOGOGO                       03002 26 03127 00001
01130      BTM   CVLAP,4171,8,   CHECKKY-STUPPY IF REAL BAD 03014 34 00000 00102
01140*
01150*          COMPUTE PARAMETERS AND WRITE OUT PROBLEM MACROBLOCKS
01160*
01170 GOGOGO BTM  DKADJ,**16,,   ESTABLISH PARAMS. UPDATABLE BLOCK 03026 39 03047 00100
01180      DSA   HEDDSB+4*5,HEDDSB+3*5,HDSA 03038 49 00796 00000
03047 00084
03130 14 19654 03880
03142 46 03166 01100
03154 17 03002 04171

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01190	TF	SM7+11,ADJF,,	SAVE UPDATABLE BLOCK ADJUSTMENT	03187 00005 19669
01200	BTM	VKADJ,HEDDSA+5,,	RELOCATE B.S.,I.S. LABELS TABLE	03192 00005 03880
01210	BT	PUTADJ,PUTADJ-1		03194 26 03629 02809
01220*				03206 17 02786 19609
01230*			THUS UPDATABLE BLOCK IS THE FIRST PERMANENT DDA IN THE	03218 27 02530 02529
01240*			TABLE, MAY BE OVERLAYED DUE TO *PRECODE CONTROL RECORDS	
01250*				
01260	BTM	DKADJ,**16,,	COMPUTE PARAMS. B.S.,I.S. LABELS	03230 17 02618 03246
01270	DSA	HEDDSB+5,HEDDSB,WC+20+13		03246 00005 19659
				03251 00005 19654
				03256 00005 02335
01280	A	HEDDSA+6*5,SM7+11,,	WHOOOPS -- UPDATE HEADER DSA-S	03258 21 19634 03629
01290	A	HEDDSA+7*5,SM7+11,,	FOR UPDATABLE BLOCK	03270 21 19639 03629
01300	BT	PUTADJ,PUTADJ-1,,	WRITE OUT I.S.,B.S. LABELS BLOCK	03282 27 02530 02529
01310	A	HEDDSA,ADJF,,	FOR PHASE D2 USE	03294 21 19604 02809
01320	A	HEDDSA+5,ADJF		03306 21 19609 02809
01330	BTM	DKADJ,**16,,	NOW G.L. LABELS FOR PHASE R	03318 17 02618 03334
01340	DSA	HEDDSB+3*5,HEDDSR+2*5,HDSA		03334 00005 19669
				03339 00005 19664
				03344 00005 03880
01350	BTM	VKADJ,HEDDSA+5*5		03346 17 02786 19629
01360	TF	HEDDSB,HEDDSA+5*5,,	USE HEDDSB IN THE HEADER	03358 26 19654 19629
01370	A	HEDDSR,ADJF,,	TO SAVE ADJUSTED START OF	03370 21 19654 02809
01380	BT	PUTADJ,PUTADJ-1,,	G.L. LABELS FOR PHASE B	03382 27 02530 02529
01390	TF	**35,ADJF		03394 26 03429 02809
01400	TFM	ADJF,0		03406 16 02809 00000
01410	SM	ADJF,-*-		03418 12 02809 00000
01420	BTM	VKADJ,HEDDSA+5*5,,	UNRELOCATE VECTORS	03430 17 02786 19629
01430	BTM	DKADJ,**16		03442 17 02618 03458
01440	DSA	HEDDSB+3*5,HEDDSR+5,WC+20+13		03458 00005 19669
				03463 00005 19659
				03468 00005 02335
01450	BTM	VKADJ,HEDDSA+5*5		03470 17 02786 19629
01460	A	HEDDSA+2*5,ADJF		03482 21 19614 02809
01470	A	HEDDSA+3*5,ADJF,,	UPDATE HEADER DSA-S	03494 21 19619 02809
01480	A	HEDDSA+4*5,ADJF,,	FOR PHASE D1 USE	03506 21 19624 02809
01490	A	HEDDSA+5*5,ADJF		03518 21 19629 02809
01500	BT	PUTADJ,PUTADJ-1		03530 27 02530 02529
01510	BTM	DKADJ,**16,,	NOW FOR THE TRANSACTIONS BLOCK	03542 17 02618 03558
01520	DSA	HEDDSR+5*5,HEDDSB+4*5,WC+20+13		03558 00005 19679
				03563 00005 19674
				03568 00005 02335
01530	TF	**23,HEDDSA+8*5,,	TRANSACTIONS BLOCK REQUIRES	03570 26 03593 19644
01540 S2	TF	**23,-*-,	SPECIAL RELOCATION	03582 26 03605 00000
01550 BNF2	BNF	UPS2,-*-,	TRANSACTIONS HAVING SUBLEDGER HAVE FLAG	03594 44 03630 00000
01560	AM	BNF2+11,8,10		03606 11 03605 00008
01570 SM7	AM	BNF2+11,-*,6		03618 11 03605 00000
01580 UPS2	A	S2+11,ADJF,6		03630 21 03593 02809
01590	AM	S2+11,5,10		03642 11 03593 00005
01600	BNR	S2,S2+11,11		03654 45 03582 03593
01610	BT	PUTADJ,PUTADJ-1		03666 27 02530 02529
01620	A	HEDDSA+8*5,ADJF		03678 21 19644 02809
01630*				
01640*			NOW CHECK FOR WISAL PHASE VS. PROBLEM BLOCK OVERLAPS	
01650*				
01660	CM	WC+2*20+13,ENDD2		03690 14 02355 10661
01670	BH	**24		03702 46 03726 01100
01680	BTM	QVLAP,4472,8		03714 17 03002 04472
01690	CM	WC+3*20+13,ENDB		03726 14 02375 11033
01700	BH	**24		03738 46 03762 01100

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01710	BTM	CVLAP,4200,8		03750	17	03002	04200
01720	CM	WC+4*20+13,ENDD1		03762	14	02395	09625
01730	BH	**24		03774	46	03798	01130
01740	BTM	CVLAP,4471,8		03786	17	03002	04471
01750	CM	WC+5*20+13,ENDC		03798	14	02415	09419
01760	BH	**24		03810	46	03834	01130
01770	BTM	CVLAP,4300,8		03822	17	03002	04300
01780	TRAI	TRA	BACK TO DO PHASE A2	03834	16	00565	03853
				03846	49	00716	00000
				03853	00002	22	
				03855	00005	03861	
				03860	00001		
				03861	00006	119783	
				03867	00003	003	
				03870	00006	00000	
01790*							
01800*		PROBLEM NOW SECURELY TIED DOWN					
01810*							
01820	HDSA	DSA	FEDDR	03880	00005	19600	
01830	EMDA1	DS	*,*, PROBLEM CAN CLOBBER ANYWHERE BELOW HERE	03880	00000		
01840	CNESAI	DC	6,100001	03886	00006		
01850	SAVA1	DS	,19900	19900	00000		
01860*							
01870*		WISAL STARTS EXECUTION HERE					
01880*							
01890	PHASAI	TD	SAVA1,300,2, SAVE 300-349	03888	25	19900	00300
01900	A		*-1,0NESAI	03900	21	03899	03886
01910	CM		PHASAI+6,SAVA1+50	03912	14	03894	19950
01920	HL		PHASAI	03924	47	03888	01300
01930	TDM		300,1,, RIG ADD TABLE MAYBE	03936	15	00300	00001
01940	TFM		309,12,711, RIG IX REGS MAYBE	03948	16	00309	00012
							68
01950	TF		349,309	03960	26	00349	00309
01960	AM		**11,0,10	03972	11	03983	00000
01970	BD		RETA1,*-1,, BE THIS A LIL OL MOD 1	03984	43	04028	03983
01980	60		**12,9	03996	60	04008	00009
01990	B7		+20,,5, OR A FANCY MOD 2 MIT INDEX REGISTERS	04008	49	04028	00000
02000	60		**12,0	04016	60	04028	00000
02010	RETA1	TD	300,SAVA1,2, PUT 300-349 BACK	04028	25	00300	19900
02020	A		*-1,0NESAI	04040	21	04039	03886
02030	CM		RETA1+6,349	04052	14	04034	00349
02040	BHF		RETA1	04064	47	04028	01100
02050	TR		WC,ORIGDA	04076	31	02302	04132
02060	TD		WC,422,, GET LOCATION OF WORK CYLINDERS	04088	25	02302	00422
02070	TF		WC+3,425,, MONITOR COULD DO THIS	04100	26	02305	00425
02080*							
02090*		ERROR TABLE NOT FULL, ARE THERE MULTIPLE PROBLEMS					
02100*							
02110	WHATP	BD	GETNO,MLPRSW,, DIGIT IN POS. 2 OF SECTOR FOR YES	04112	43	04226	02523
02120	B7		FEIN	04124	49	02836	00000
02130	ORIGDA	DDA	,0,0,0,0	04132	00006	000000	
				04138	00003	000	
				04141	00005	00000	
02140	DSA		MONCAL	04150	00005	00796	
02150	DC		1,*	04151	00001		
02160	WPRB	DAC	33,ENTER 4-DIGIT DIM NO. OF PROBLEM	04153	00066		
02170	RNTY	DTN	,GETNO+2	04218	00005	04228	
				04223	00003	000	
02180	GETNO	RCTY	*,2	04226	34	00000	00102
02190	WATY	WFRB		04238	39	04153	00100
02200	RCTY			04250	34	00000	00102
02210	GET	RNTY		04262	16	00565	04235
				04274	49	00566	04218

02220	BC4	GETNO			04286	46	04226	00400
02230	SF	GETNO+2			04298	32	04228	00000
02240	TF	PRIN+25,GETNO+5			04310	26	02861	04231
02250	B7	PRIN			04322	49	02836	00000
02260	TCD	PHASAI			03888			

02270*****
02280*
02290* PHASE A2 -- READ CONTROL CARDS *
02300* DETERMINE SWS *
02310* DETERMINE OUTPUT ROUTINE *
02320*
02330*****

02340*								
02350	DORG	CKADJ,	LEAVE	PUTADJ THERE	02618			
02360	GETADJ	RNF	CFDD,*-1,,	PERMANENT DISK INPUT ROUTINE	02618	44	02662	02617
02370	CF	GETADJ-1			02630	33	02617	00000
02380	SF	DD+1			02642	32	02713	00000
02390	B7	CFDD+12			02654	49	02674	00000
02400	CFDD	CF	DD+1		02662	33	02713	00000
02410	TF	DD+6,GETADJ-1			02674	26	02718	02617
02420	GET	UD			02686	16	00565	02709
					02698	49	00566	02712
02430	RR?				02710	42	00000	00000
02440	DD	DSC	8,2200000'		02712		00008	
02450	INPUT	DAC	40,	,, PERMANENT	02721		00080	
02460	DAC	41,		','CARD-IN AREA	02801		00082	
02470	CARD	DCA	,INPUT		02882	00005	02721	
					02887	00003	10G	
02480	TITSAV	DAC	40,	,,SAVE TITLE	02891		00080	
02490	DSC	40,0			02970		00040	
02500	DSC	42,0'			03010		00042	

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02510*			PROCESSOR SWITCHES					
02520	DCSW	DSC	1,0,,	DEBIT OR CREDIT LAST FOUND	03052		00001	
02530	ORSW	DSC	1,0,,	1111 OR (CUST) LAST FOUND	03053		00001	
02540	SGSW	DSC	1,0,,	SIGN OF LOCAL AMT	03054		00001	
02550	SGSW2	DSC	1,0,,	SIGN OF PARENTHETICAL EXPRESSION	03055		00001	
02560	LPSW	DSC	1,0,,	PARENTHESSES NOT CLOSED	03056		00001	
02570	CDVSW	DSC	1,0,,	CASH, DISC, OR VOUC LAST FOUND, NO AMT YET	03057		00001	
02580	AMTSW	DSC	1,0,,	AMT LAST FOUND, NO N OR C, D, V YET	03058		00001	
02590	SESW	DSC	1,0,,	ERROR IN SENTENCE	03059		00001	
02600	GETA2	GET	CARD		03060	16	00565	03083
					03072	49	00566	02882
02610	C	INPUT+8,TITLA2			03084	24	02729	03197
02620	BE	TRA2			03096	46	03208	01200
02630	C	INPUT+8,ADMNA2			03108	24	02729	03207
02640	BE	TRA2			03120	46	03208	01200
02650	RCTY				03132	34	00000	00102
02660	WATY	NTITLA2			03144	39	03313	00100
02670	RCTY				03156	34	00000	00102
02680	H				03168	48	00000	00000
02690	B7	GETA2			03180	49	03060	00000
02700	TITLA2	DSAC	5,TITLE		03197		00010	
02710	ADMNA2	DSAC	5,ADMIN		03207		00010	
02720	TRA2	SM	CA2+11,2,10		03208	12	03231	00002
02730	CA2	C	CA2,INPUT+160,7		03220	24	03311	02881
02740	BE	*-24			03232	46	03208	01200
02750	AM	CA2+11,2,10			03244	11	03231	00002
02760	TDM	CA2+11,0,6			03256	15	03231	00000
02770	DC	1,*,*			03267		00001	
02780	TRA				03268	16	00565	03287
					03280	49	00716	00000
					03287	00002	22	

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02790 CCA2 DC 2,0
 02800 NTITAZ DAC 36,TITLE OR ADMIN CARD MUST BEGIN INPUT
 02810 DAC 18,, CORRECT, START*
 02820 TCC GETA2

02830*****
 02840* *
 02850* OUTPUT AREA AND ALTERNATE OUTPUT ROUTINES *
 02860* *
 02870*****

02880 DORG GETA2
 02890 DAC 1,*
 02900 OUTPUT DAC 40, ,, PERMANENT
 02910 DAC 40, ,, OUTPUT
 02920 DAC 41, ',, AREA
 02930 DSA OUTPUT
 02940 PRINT DS ,*-4, PRINTER I/O CONSTANT
 02950 DC 2,18
 02960 DGM
 02970 DSA OUTPUT
 02980 PRINT1 DS ,*-4
 02990 DC 2,26
 03000 DGM
 03010 PHBERS DC 3,0
 03020 PHCERS DC 3,0
 03030 LCSW DSC 1,0
 03040 PUNCH DCA ,OUTPUT

03289 00005 03295
 03294 00001 '
 03295 00006 119783
 03301 00003 003
 03304 00006 00000'
 03311 00002
 03313 00072
 03385 00036
 03060

03060
 03061 00002
 03063 00080
 03143 00080
 03223 00082
 03308 00005 03063
 03304 00000
 03310 00002
 03311 00001
 03316 00005 03063
 03312 00000
 03318 00002
 03319 00001
 03322 00003
 03325 00003
 03326 00001
 03327 00005 03063

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03050 DPUNCH DCA ,OUTPUT-2

03060 CLR DAC 40, ,,
 03070 READ TD INPUT+1,INPUT+160,,RM TO EVEN LOCATION
 03080 GET CARD

03090 BNR RMCHK,INPUT+1,, IF CARD ACTUALLY READ

03100 B7 READ
 03110 RMES DAC 33,0-2-8 ON CARD, REPLACED BY BLANK*

03120 WHCCOM NOP RMIRK+32
 03130 NOP RBNR+52

03140 BB2

03150 RMCHK TDM PSW,0

03160 PSW DS ,*-1

03170 TR OUTPUT-1,INPUT-1,, NO RMS ALLOWED ON CARD

03180 BNR RMERK,OUTPUT+160

03190 B7 LABCHK

03200 RMERK TDM WHCCOM+1,9

03210 TFM ERPRNT-1,RMES-1

03220 B7 ERPRNT

03230 TDM WHCCOM+1,1

03240 TFM **35,INPUT-2

03250 AM **23,2,10,, CLEAR IT IN CARD INPUT AREA

03260 BNR *-12,*-*

03270 TDM *-1,0,6

03280 B RMCHK+12

03290 NOP

03300 NOP

03310 ERPRNT BD RMES,PSW,, STANDARD ROUTINE TO OUTPUT DIAGNOSTIC

03320 TDM PSW,1,1,, PUNCH CARD COPY ONLY ONCE

03332 00003 106
 03335 00005 03061
 03340 00003 106
 03345 00080
 03424 25 02722 02881
 03436 16 00565 03459
 03448 49 00566 02882
 03460 45 03572 02722
 03472 49 03424 00000
 03481 00066
 03546 41 03648 00000
 03558 41 03708 00000
 03570 42 00000 00000
 03572 15 03582 00000
 03582 00000
 03584 31 03062 02720
 03596 45 03616 03223
 03608 49 06938 00000
 03616 15 03547 00009
 03628 16 03743 03480
 03640 49 03744 00000
 03648 15 03547 00001
 03660 16 03695 02719
 03672 11 03695 00002
 03684 45 03672 00000
 03696 15 03695 00000
 03708 49 03584 00000
 03720 41 00000 00000
 03732 41 00000 00000
 03744 43 03792 03582
 03756 15 03582 00001

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03330	PUT	CPUNCH,,,	IN THE CASE OF MULTIPLE ERRORS	03768	16	00565	03791
				03780	49	00532	03335
03340	OMES	TF	OUTPUT+78,CLR+78	03792	26	03141	03423
03350		TF	OUTPUT+158,CLR+78	03804	26	03221	03423
03360		TR	OUTPUT+7,ERPRNT-1,11	03816	31	03070	03743
03370		TFM	**35,OUTPUT+6	03828	16	03863	03069
03380		AM	**23,2,10	03840	11	03863	00002
03390		BNR	*-12,*-*	03852	45	03840	00000
03400		TDM	*-1,0,6	03864	15	03863	00000
03410		PUT	CPUNCH	03876	16	00565	03899
				03888	49	00532	03335
03420		B7	WHOCOM	03900	49	03546	00000
03430	A4TCD	TFM	WC+13,DCSW	03908	16	02315	03052
03440		TFM	NUAD,DCSW	03920	16	02565	03052
03450		BD	TRA4,PRSW	03932	43	03968	02522
03460		TF	WC+8,A4DSA-2	03944	26	02310	04012
03470		BT	PUTADJ,PUTADJ-1	03956	27	02530	02529
03480	TRA4	TRA		03968	16	00565	03997
				03980	49	00716	00000
				03987	00002	22	
				03989	00005	03995	
				03994	00001		
				03995	00006	119783	
				04001	00003	003	
				04004	00006	00000	
03490	A4DSA	DSA	A4TCD-DCSW+100	04014	00005	00956	
03500		TCC	A4TCD	03908			
03510		DORG	RMCHK	03572			
03520		TR	OUTPUT+39,INPUT-1	03572	31	03102	02720
03530		CM	INPUT+2,6349,8	03584	14	02723	06349
03540		RE	RBNR,,, DONT PRINT NEXT TITLE	03596	46	03656	01200

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03550	PUT	PRINT		03608	16	00565	03631
				03620	49	00532	03304
03560		BNI	**24,3400	03632	47	03656	03400
03570		K	,971	03644	34	00000	00971
03580	RBNR	BNR	**20,OUTPUT+40+160	03656	45	03676	03263
03590		B7	LABCHK	03668	49	06938	00000
03600		TDM	WHOCOM+13,9	03676	15	03559	00009
03610		TFM	ERPRNT-1,RMES-1	03688	16	03743	03480
03620		B7	ERPRNT	03700	49	03744	00000
03630		TDM	WHOCOM+13,1	03708	15	03559	00001
03640		TFM	RMSCAN+23,INPUT-2	03720	16	03883	02719
03650		B	RMSCAN	03732	49	03860	00000
03660		TF	OUTPUT+46,CLR+46,, THIS IS THE CHITINERARY ERPRNT	03744	26	03109	03391
03670		TR	CUTPUT+47,*-13,11	03756	31	03110	03743
03680		PUT	PRINT1	03768	16	00565	03791
				03780	49	00532	03312
03690		PUT	PRINT	03792	16	00565	03815
				03804	49	00532	03304
03700		WN	CD+7,900	03816	38	02719	00900
03710		BNI	**24,3400	03828	47	03852	03400
03720		K	,971	03840	34	00000	00971
03730		B7	WHOCUM	03852	49	03546	00000
03740	RMSCAN	AM	**23,2,10	03860	11	03883	00002
03750		BNR	*-12,*-*	03872	45	03860	00000
03760		TDM	*-1,0,6	03884	15	03883	00000
03770		TR	OUTPUT+39,INPUT-1	03896	31	03102	02720
03780		B7	RBNR	03908	49	03656	00000
03790	A5TCD	BNF	TRA5,PRSW	03916	44	03964	02522
03800		K	,971	03928	34	00000	00971
03810		TF	WC+8,A5DSA-2	03940	26	02310	04008
03820		BT	PUTADJ,PUTADJ-1	03952	27	02530	02529

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03830 TRAS TRA

03964 16 00565 03983

03976 49 00716 00J00

03983 00002 22

03985 00005 03991

03990 00001 *

03991 00006 119783

03997 00003 003

04000 00006 00000*

04010 00005 00964

03916

03840 A5DSA DSA A5TCD-DCSW+100

03850 TCD A5TCD

03860*****

03870*

03880* PHASE B -- THE PROCESSOR *

03890*

03900*****

03910 DORG A5TCD

03916

03920 AREA DSS LNTH

03916 03000

03930 LSMNEM DSAC 4,,,,

06923 00008

03940 DSC 1,,

06924 00001

03950 AD DSA *--*

06929 00005 00000

03960 DC 8,'

06937 00008

03970 LABCHK C TITLB,INPUT+8

06938 24 07455 02729

03980 BE TITLBF

06950 46 07074 01200

03990 C ADMIN,INPUT+8

06962 24 07465 02729

04000 BE TITLBF

06974 46 07074 01200

04010 C XREFB,INPUT+6

06985 24 07073 02727

04020 BE GOTDF

06998 46 09268 01200

04030 NOCOL7 C CLR+6,INPUT+20,, IS MNEMONIC FIELD BLANK

07010 24 03351 02741

04040 BNE ISLAB

07022 47 07466 01200

04050 CM LSMNEM-4,2323,8, YES, WAS THERE ANY PREV. LABEL

07034 14 06919 02323

04060 BNE CONT

07046 47 07894 01200

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04070 R7 READ

07058 49 03424 00000

04080 XREFB DSAC 4,XREF

07073 00008

04090 TITLBF RCTY

07074 34 00000 00102

04100 RCTY

07086 34 00000 00102

04110 WATY BTITL1

07098 39 07255 00100

04120 RCTY

07110 34 00000 00102

04130 WATY BTITL2

07122 39 07355 00100

04140 H

07134 48 00000 00000

04150 RCTY

07146 34 00000 00102

04160 PNC? READ

07158 47 03424 00200

04170 BTM GETADJ,WC+6*20

07170 17 02618 02422

04180 SM **23,2,10

07182 12 07205 00002

04190 CCC C CLR,INPUT+160,7

07194 24 03345 02831

04200 BE *-24

07206 46 07182 01200

04210 AM LCC+11,2,10

07218 11 07205 00002

04220 TDM CCC+11,0,6

07230 15 07205 00000

04230 DC 1,*,*

07241 00001

04240 BTM GETADJ,WC+7*20,711,RE-CALL PHASE B

07242 17 02618 02442

04250 BTITL1 DAC 50,A TITLE CARD HAS BEEN FOUND IN THE SOURCE PROGRAM*

07255 00100

04260 BTITL2 DAC 46,SW 2 OFF TO CONTINUE AND IGNORE, ON TO ACCEPT*

07355 00092

04270 TITLBF DSAC 5,TITLE

07455 00010

04280 ADMIN DSAC 5,ADMIN

07465 00010

04290 ISLAB TFM ACLAB+11,INPUT+14,,COLLECT + LEFT-JUSTIFYING LABEL

07466 16 07513 02735

04300 TF HCLAB,CLR+6

07478 26 10798 03351

04310 TFM AMB+6,HOLAB-8

07490 16 07568 10790

04320 ACLAB C CLR,*--*

07502 24 03345 00000

04330 BE AMB+12

07514 46 07574 01200

04340 AM AMB+6,2,10

07526 11 07568 00002

04350 TFM AMB+11,0,10

07538 16 07573 00000

04360 A AMB+11,ACLAP+11,11

07550 21 07573 07513

04370 AMB AM *--*,*--*

07562 11 00000 00000

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04380	AM	ACLAB+11,2,10		07574	11	07513	00002
04390	CM	ACLAB+11,INPUT+22		07586	14	07513	02743
04400	BL	ACLAB		07598	47	07502	01300
04410	C	HOLAB,LSMNEM,,	IS LABEL SAME AS PREVIOUS	07610	24	10798	06923
04420	BE	CONT,,,	YES, CONTINUE	07622	46	07894	01200
04430	TDM	RBSW,0		07634	15	08611	00000
04440	BTM	LGCAND,DSWNLB		07646	17	08090	09576
04450	BNF	LASWOK,TRSW,,	NOW TEST IF STATUS SWS ARE ALL IN ORDER	07658	44	07706	08100
04460	BTM	ERPRNT,BADLAB-1,,	FOR BEGINNING A NEW ROUTINE	07670	17	03744	07958
04470	AM	PHBERS,1,10		07682	11	03322	00001
04480	BTM	SETSWS,DSWNLB		07694	17	08208	09576
04490	LASWOK	TF	CLAB+6,TRLAB+6	07706	26	07744	07804
04500	AM		CLAB+6,7,10	07718	11	07744	00007
04510	B7		CLAB+36	07730	49	07774	00000
04520	CLAB	C	*-*,HOLAB	07738	24	00000	10798
04530	BE		DUPLAB	07750	46	07926	01200
04540	AM		CLAB+6,14,10	07762	11	07744	00014
04550	BNR		CLAB,CLAB+6,11	07774	45	07738	07744
04560	S		TRLAB+11,14S	07786	22	07809	10805
04570	TRLAB	TR	LSMNEM+7,LSMNEM+21,2	07798	31	06930	06944
04580	TF		LSMNEM,HOLAB	07810	26	06923	10798
04590	FINLZE	TR	INSAD,ENDRT,6	07822	31	09974	10806
04600	TDM		TDX+10,0	07834	15	09466	00000
04610	AM		INSAD,6,10	07846	11	09974	00006
04620	C		INSAD,TRLAB+6	07858	24	09974	07804
04630	BNL		CVERR	07870	46	10028	01300
04640	TF		AD,INSAD	07882	26	06929	09974
04650	CONT	TFM	CUL,INPUT+22	07894	16	08697	02743
04660	BD		RBACK,RBSW	07906	43	08850	08611
04670	B7		SSUPP	07918	49	08494	00000
04680	DUPLAB	BTM	ERPRNT,OLMES-1	07926	17	03744	08200

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04690	AM		PHBERS,1,10	07938	11	03322	00001
04700	B7		FINLZE	07950	49	07822	00000
04710	BADLAR	DAC	31,PREVIOUS ROUTINE NOT COMPLETED*	07959		00062	
04720	OLMES	DAC	32,LABEL DUPLICATES PREVIOUS LABEL*	08021		00064	
04730*							
04740*			ROUTINE TO TAKE THE LOGICAL AND OF A BUNCH OF SWITCHES				
04750*							
04760	DS		5	08088		00005	
04770	LGCAND	TDM	TRSW,0,, RESET OUTPUT SW TO OK	08090	15	08100	00000
04780	TRSW	DS	,*-1	08100		00000	
04790	TF		BDL+11,LGCAND-1,11,PULL IN INPUT SW ADDRESS	08102	26	08149	08089
04800	BNF		PSEEK,BDL+11,, BRANCH IF THE SW IS DESIRED TO BE OFF	08114	44	08164	08149
04810	CF		BDL+11,,, SW DESIRED TO BE ON	08126	33	08149	00000
04820	BDL	BNF	PSEEK+12,*-*, IS IT	08138	44	08176	00000
04830	TDM		TRSW,1,11, NO, SET OUTPUT SW TO NOT OK	08150	15	08100	00001
04840	BB2		,,, AND OUT	08162	42	00000	00000
04850	PSEEK	BNF	BDL+12,BDL+11,11, SW DESIRED TO BE OFF, BRANCH IF ON	08164	44	08150	08149
04860	AM		LGCAND-1,5,10, THAT SW WAS OK	08176	11	08089	00005
04870	BNR		LGCAND+12,LGCAND-1,11, BACK FOR ANOTHER	08188	45	08102	08089
04880	BB2	BB2	,,, OR OUT	08200	42	00000	00000
04890	DS		5	08206		00005	
04900	SETSWS	TF	TDMJ+6,*-1,11, ROUTINE TO SET SWS AS SPECIFIED	08208	26	08270	08207
04910	BNF		TDMJ,TDMJ+6	08220	44	08264	08270
04920	CF		TDMJ+6	08232	33	08270	00000
04930	TDM		TDMJ+6,0,6	08244	15	08270	00000
04940	B7		TDMJ+12	08256	49	08276	00000
04950	TDMJ	TDM	*-1,11	08264	15	00000	00001
04960	AM		SETSWS-1,5,10	08276	11	08207	00005
04970	BNR		SETSWS,SETSWS-1,11	08288	45	08208	08207
04980	BB2			08300	42	00000	00000
04990	LSCANS	TF	CM42+11,COL,, SAVE POINTER	08302	26	08481	08597

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05000	TFM	TDNUM+6,ALPHAN-6,, THIS AINT NO NUMERIC	08314 16 08560 10513
05010	BTM	SCAN,CREDIT	08326 17 08662 08961
05020	RTM	SCAN,DEBIT	08338 17 08662 08930
05030	BTM	SCAN,AMT	08350 17 08662 09004
05040	BTM	SCAN,LPAREN	08362 17 08662 09022
05050	BTM	SCAN,VOUC	08374 17 08662 09053
05060	BTM	SCAN,DISC	08386 17 08662 09068
05070	BTM	SCAN,CASH	08398 17 08662 09088
05080	BTM	SCAN,PLUS	08410 17 08662 09113
05090	BTM	SCAN,MINUS	08422 17 08662 09128
05100	BTM	SCAN,SPLUS	08434 17 08662 09145
05110	BTM	SCAN,SMINUS	08446 17 08662 09154
05120	BTM	SCAN,RPAREN	08458 17 08662 09153
05130	CM42	CM COL, *-*, HAS ALL THAT MOVED POINTER	08470 14 08697 00000
05140	BE	UPCOL,,, NO,GO TO MOVE IT	08482 46 08602 01200
05150	SSUPP	C CZERO,COL,11, SPACE SUPPRESS, ENTERS HERE	08494 24 10823 08697
05160	BNL	UPCOL	08506 46 08602 01300
05170	IFNUM	C C70B,COL,11, CHECK FOR NUMERIC	08518 24 10790 08597
05180	BH	LSCANS,,, NO, GO RUN THE ALPHA GAUNTLET AGAIN	08530 46 08302 01100
05190	BD	AMTN,AMTSW,, IS THIS LIKE AMT N	08542 43 10454 03058
05200	TDNUM	TD ALPHAN-6,COL,11, NO	08554 25 10813 08597
05210	CM	*-6,ALPHAN,, HAVE WE 4 NUMERIC	08566 14 08560 10819
05220	RNL	NNMN,,, YES, GO TO PROCESS	08578 46 10474 01300
05230	AM	TDNUM+6,2,10, NO, THEN EVER	08590 11 08560 00002
05240	UPCOL	AM COL,2,10, ONWARD, LIKE UP ON CARD	08602 11 08697 00002
05250	CM	COL,ENDWDS,, IF END OF CARD	08614 14 08697 02863
05260	BNH	SSUPP,,, NO, GO TO SUPPRESS SPACES	08626 47 08494 01100
05270	TDM	RBSW,0,, YES, SET SW TO RETURN TO SSUPP	08638 15 08611 00000
05280	B7	READ,,, AND GO TO READ A NEW CARD	08650 49 03424 00000
05290	ENDWDS	DS ,INPUT+142	02863 00000
05300	RBSW	DS ,UPCOL+9	08611 00000

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05310	DS	5	08661 00005
05320	SCAN	TF DR1,*-1,11, BRING IN CHAR DUE TO NECESSITY TO CF	08662 25 10821 08591
05330	AM	SCAN-1,2,10, UP IN CONTROL NOW	08674 11 08661 00002
05340	C1	C OBJ,*-*, MAIN COMPARE, WITH OVERFLOW	08686 24 10821 00000
05350	COL	DS **, MAINLINE HAS SET COL NON-BLANK COMING IN	08697 00000
05360	BE	IFEND,,, AH-50	08698 46 08794 01200
05370	BNF	BB2,OBJ,, COLUMN VS. CONTROL UNEQUAL, BUT IF NONAMBI,	08710 44 08200 10821
05380	CF	OBJ,,, CLEAR AMBIG FLAG	08722 33 10821 00000
05390	AM	SCAN-1,3,10, UP TO AMBIG ADDRESS	08734 11 08661 00003
05400	C	CBC,COL,11, AND COMPARE AGAIN	08746 24 10821 08597
05410	BE	SCAN+12,,, EQUAL, UP TO NEXT CHAR	08758 46 08674 01200
05420	TF	SCAN-1,SCAN-1,11,UNEQUAL, SET UP IN NEW WORD AND	08770 26 08661 08591
05430	SM	COL,2,10, KEEP SAME CARD COLUMN	08782 12 08697 00002
05440	IFEND	CM SCAN-1,99,610, IF END OF CONTROL WORD	08794 14 08661 00000
05450	BNE	NOEND,,, NO, GO TO UP CARD COLUMN	08806 47 08874 01200
05460	AM	SCAN-1,5,10, YES, GO	08818 11 08661 00000
05470	SF	SCAN-1,,, TO	08830 32 08661 00000
05480	B7	SCAN-1,,6, ROUTINE, WITH COL AT LAST CHAR	08842 49 08661 00000
05490	RBACK	C CZERO,COL,11, SUPPRESS BLANKS	08850 24 10823 08697
05500	BL	SCAN,,,	08862 47 08662 01300
05510	NCLND	AM COL,2,10, UP ON CARD	08874 11 08697 00002
05520	CM	COL,ENDWDS,, IF END OF CARD	08886 14 08697 02863
05530	RNF	RBACK,,, NO, GO TO BLANK-CHECK	08898 47 08350 01100
05540	TDM	RBSW,1,11, YES, SET SW TO RETURN TO RBACK	08910 15 08611 00001
05550	B7	READ,,, AND GO TO READ NEW CARD	08922 49 03424 00000

05560*

05570* CONTROL WORDS FOR SCAN

05580*

05590	DEBIT	DVLC ,2,44,2,-45,5,ISC,2,42,2,49,2,63,2,79,5,DEFND	08930 00022
05600	ISC	DVLC ,2,49,2,-46,5,DISC+9	08952 00009
05610	CREDIT	DVLC ,2,43,2,-57,5,ASH,2,45,2,44,2,-49,5,DEBIT+2,2,-63	08961 00022

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05620	DVLC	,5,DISC+9,2,99,5,CRFND		08986	00012
05630	ASH	DVLC	,2,41,2,-86,5,CASH+9	08995	00009
05640	AMT	DVLC	,2,41,2,54,2,-63,5,MINUS+2,2,99,5,AMFND	09004	00018
05650	LPAREN	DVLC	,2,24,2,99,5,LPFND	09022	00009
05660	CUST	DVLC	,2,43,2,-64,5,CREDIT+2,2,62,2,63,2,04,2,99,5,CSFND	09031	00022
05670	VOUC	DVLC	,2,65,2,56,2,64,2,43,2,99,5, VCFND	09053	00015
05680	DISC	DVLC	,2,44,2,-49,5,DEBIT+2,2,62,2,43,2,99,5,DSFND	09068	00020
05690	CASH	DVLC	,2,43,2,-41,5,CREDIT+2,2,-62,5,AMT+2,2,48,2,99,5,CAFND	09088	00025
05700	PLUS	DVLC	,2,57,2,53,2,64,2,62,2,99,5,PLFND	09113	00015
05710	MINUS	DVLC	,2,54,2,49,2,55,2,64,2,62,2,99,5,MNFND	09128	00017
05720	SPLUS	DVLC	,2,10,2,99,5,PLFND	09145	00009
05730	SMINUS	DVLC	,2,20,2,99,5,MNFND	09154	00009
05740	RPAREN	DVLC	,2,04,2,99,5,RPFND	09163	00009
05750	LPFND	TD	SGSW2,SGSW,, BOUNCING OUT OF SCAN WITH (FOUND	09172	25 03055 03054
05760	TDM	SGSW,0		09184	15 03054 00000
05770	TDM	LPSW,1,11		09196	15 03056 00001
05780	TFM	SCAN-1,CUST,, SNEAK BACK IN FOR CUST		09208	16 08661 09031
05790	B7	NOEND		09220	49 08874 00000
05800	PLFND	TDM	SGSW,0,, PLUS OK + FOUND -- THE 2 SIGN SWS ARE	09228	15 03054 00000
05810	DC	1,*,*,	3-WAY, 0 FOR NO SIGN	09239	00001
05820	B7	**20,,	OUTSTANDING, FLAGGED	09240	49 09260 00000
05830	MNFND	TDM	SGSW,1,11,, MINUS OR - FOUND 1 FOR MINUS, FLAGGED	09248	15 03054 00001
05840	B7	UPCOL		09260	49 08602 00000
05850	GOTOF	BTM	LGCAND,DSWNLB,, GO TO START MESSAGE	09268	17 08090 09576
05860	BNF	**36,TRSW,, FOUND, GET OUT		09280	44 09316 08100
05870	BTM	ERPRNT,BADLAB-1		09292	17 03744 07958
05880	AM	PHBERS,1,10		09304	11 03322 00001
05890	TR	INSAD,ENDRT,6		09316	31 09974 10806
05900	AM	INSAD,6,10		09328	11 09974 00006
05910	C	INSAD,TRLAB+6		09340	24 09974 07804
05920	RNL	QVERB		09352	46 10028 01300

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05930	TF	WC+18,TRLAB+6		09364	26 02320 07804
05940	AM	WC+18,7,10		09376	11 02320 00007
05950	BTM	SETSWS,DCDSA2		09388	17 08208 09571
05960	BTM	GETADJ,WC+8*20,711,LINK TO PHASE C		09400	17 02618 02452
05970	DRFND	TFM	ADREG,0	09412	16 10828 00000
05980	B7	**20		09424	49 09444 00000
05990	CRFND	TFM	ADREG,L	09432	16 10828 00007
06000	BD	**32,**22		09444	43 09476 09466
06010	TDX	TDM	**10,1	09456	15 09466 00001
06020	B7	SWELL		09468	49 09524 00000
06030	BTM	LGCAND,DSWNLB		09476	17 08090 09576
06040	BNF	SWELL,TRSW		09488	44 09524 08100
06050	BTM	ERPRNT,BADDC-1		09500	17 03744 10836
06060	AM	PHBERS,1,10		09512	11 03322 00001
06070	SWELL	CF	DSWNLB	09524	33 09576 00000
06080	BTM	SETSWS,DCDSA2		09536	17 08208 09571
06090	SF	DSWNLB		09548	32 09576 00000
06100	B7	UPCOL		09560	49 08602 00000
06110	DCDSA2	DSA	-SESW	09571	00005 03059
06120	DSWNLB	DSA	-DCSW,-OBSW,-CDVSW,-AMTSW	09576	00005 03052
				09581	00005 03053
				09586	00005 03057
				09591	00005 03058
				09596	00005 03056
				09601	00005 03054
				09606	00005 03055
				09611	00005
06130	RPDSA	DSA	-LPSW,-SGSW,-SGSW2	09612	44 08602 03056
06140	DC	5,1		09624	44 09660 03054
06150	RPFND	BNF	UPCOL,LPSW	09636	17 03744 09580
06160	BNF	CLRSN,SGSW		09648	11 03322 00001
06170	BTM	ERPRNT,BADRP-1			
06180	AM	PHBERS,1,10			

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06190	CLRSN	BTM	SETSWS,RPDSA		09660	17	08208	09596
06200		B7	UPCOL		09672	49	08602	00000
06210	BADRP	DAC	18,PARENTHESIS ERROR'		09681	00036		
06220	CAFND	TDM	INST,0,,	CASH	09716	15	10829	00000
06230		B7	VCFND+12		09728	49	09768	00000
06240	DSFND	TDM	INST,0,,	DISC	09736	15	10829	00000
06250		DSC	1,*,*		09747	00001		
06260		B7	VCFND+12		09748	49	09768	00000
06270	VCFND	TDM	INST,0,,	VOUC FOUND	09756	15	10829	00000
06280	WISGM	DGM	*		09767	00001		
06290	BD	RSAMT,AMTSW,,		DID 'AMT' SHOW UP PREVIOUSLY	09768	43	09828	03058
06300	BD	**36,SGSW			09780	43	09816	03054
06310	BD	**24,SGSW2,,		IGNORE THE WORD IF NNNN, (CUST),	09792	43	09816	03055
06320	BNF	UPCOL,OBWS,,		OR A SIGN HAS NOT PRECEDED	09804	44	08602	03053
06330	TDM	CDVSW,1,11			09816	15	03057	00001
06340	RSAMT	TDM	ORSW,0		09828	15	03053	00000
06350	TDM	AMTSW,0			09840	15	03058	00000
06360	BNR	SEC2,SGSW2,,		DETERMINE THE SIGN	09852	45	09896	03055
06370	SEC3	BNF	SPOS,SGSW		09864	44	09944	03054
06380	BNR	SNEG,SGSW			09876	45	09932	03054
06390	B7	SPOS			09888	49	09944	00000
06400	SEC2	BNF	SEC3,SGSW2		09896	44	09864	03055
06410	BNF	SNEG,SGSW			09908	44	09932	03054
06420	BNR	SPOS,SGSW			09920	45	09944	03054
06430	SNEG	SF	INST		09932	32	10829	00000
06440	SPOS	TDM	SGSW,0		09944	15	03054	00000
06450	BD	UPCOL,SESW,,		ASSEMBLE NOTHING IF SENTENCE ERROR	09956	43	08602	03059
06460	TD	APEA,INST,2			09968	25	03916	10829
06470	INSAD	DS	,*-5		09974	00000		
06480	AM	INSAD,6,10			09980	11	09974	00006
06490	TF	INSAD,INST+6,6			09992	26	09974	10835

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06500	C	INSAD,TRLAB+6			10004	24	09974	07804
06510	BL	UPCOL			10016	47	08602	01300
06520	OVERB	BTM	ERPRNT,QVBMES-1		10028	17	03744	10072
06530	BTM	ERPRNT,QVBM2-1			10040	17	03744	10176
06540	BTM	ERPRNT,OUTPUT+237,,BLANK CARD			10052	17	03744	03300
06550	CALL	EXIT			10064	49	00796	00000
06560	QVBMES	DAC	50,STUDENT PROGRAM EXCEEDS CORE CAPACITY AT THIS POINT,,		10073	00100		
06570	DAC	2,1'			10173	00004		
06580	QVBM2	DAC	43,STUDENT PROGRAM TERMINATED, JOB TERMINATED'		10177	00086		
06590	AMFND	BD	UPCOL6,CDVSW		10262	43	10394	03057
06600	BTM	LGCAND,AMDSA2			10274	17	08090	10437
06610	TD	HOSW,TRSW			10286	25	10404	08100
06620	BTM	LGCAND,AMDSA			10298	17	08090	10417
06630	BNF	**46,TRSW			10310	44	10358	08100
06640	BTM	ERPRNT,AMMES-1			10322	17	03744	10836
06650	AM	PHBERS,1,10			10334	11	03322	00001
06660	TDM	SLSW,1,10			10346	15	03059	00001
06670	TDM	ORSW,0			10358	15	03053	00000
06680	TDM	AMTSW,1,11			10370	15	03058	00001
06690	TDM	ORSW,0			10382	15	03052	00000
06700	UPCOL6	TDM	CDVSW,0		10394	15	03057	00000
06710	B7	UPCOL			10406	49	08602	00000
06720	HOSW	DS	,UPCOL6+10		10406	00000		
06730	AMDSA	DSA	-AMTSW,HOSW,-DCSW		10417	00005	03058	
					10422	00005	10404	
					10427	00005	03052	
06740	DC	5,*			10432	00005		
06750	AMDSA2	DSA	-OBWS,-SGSW,-SGSW2		10437	00005	03053	
					10442	00005	03054	
					10447	00005	03055	
06760	DC	5,*			10452	00005		

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07310 TFM WC+3*20+18,READ,, TITLE CARD IS IN
 07320 SF PLFND+11
 07330 TF WC+8,LBDSA-2
 07340 BT PUTADJ,PUTADJ-1
 07350 TRA

11070 16 02380 03424
 11082 32 09239 00000
 11094 26 02310 11162
 11106 27 02530 02529
 11118 16 00565 11137
 11130 49 00716 00000
 11137 00002 22
 11139 00005 11145
 11144 00001 1
 11145 00006 119783
 11151 00003 003
 11154 00006 00000'
 11164 00005 04218
 11034
 11033 00000

07360 LBDSA DSA TCDB LSMNEM+107
 07370 TCC TCDB
 07380 ENDB DS ,TCDB-1

07390*****
 07400*
 07410* PHASE C -- THE EXECUTOR
 07420* READS REFERENCE SECTION + EXECUTES
 07430*
 07440*****

07450 DORG LABCHK
 07460 C XRLFC,INPUT+6
 07470 BE FORTHC
 07480 C TITLC,INPUT+8
 07490 BE OUTC
 07500 C ADMINC,INPUT+8
 07510 RE OUTC
 07520 BLC OUTC2
 07530 RCTY
 07540 RCTY

06938
 06938 24 07821 02727
 06950 46 07888 01200
 06962 24 07831 02729
 06974 46 07090 01200
 06986 24 07841 02729
 06998 46 07090 01200
 07010 46 07158 00900
 07022 34 00000 00102
 07034 34 00000 00102

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07550 WATY NGITC
 07560 RCTY
 07570 H
 07580 B7 READ
 07590 OUTC SM TCMC+11,2,10
 07600 TCMC C CLR,INPUT+160,7
 07610 BE OUTC
 07620 AM TCMC+11,2,10
 07630 TDM TCMC+11,0,6
 07640 DC 1,*,*
 07650 B7 OUTC
 07660 OUTC2 TDM LCSW,1,11
 07670 OUTC3 CM TITSAV+2,4144,8
 07680 RE NOTUCH
 07690 TF CNTBD+11,TRKAD
 07700 LPBD AM CNTBD+11,1,10
 07710 AM **9,1,710
 07720 C LPBD+21,HEODSA+9*5
 07730 BH OUTSWL
 07740 CNTBD BD LPBD,*-*
 07750 TD NOCMES+76,LPBD+21
 07760 TD NOCMES+74,LPBD+20
 07770 TD NOCMES+72,LPBD+19
 07780 BTM ERPRNT,NOCMES-1
 07790 AM PHCERS,1,10
 07800 B7 LPBD
 07810 NOCMES DAC 40,NO CODE PROVIDED FOR TRANSACTION NO 777,, A LA MCCDY
 07820 NOTUCH PUT TEMPC,,, ADMIN RUN, WRITE BACK UPDATABLES
 07830 B7 PDNN,,, REMOVE IF ADMIN RUN SHOULD PRODUCE OUTPUT
 07840 OUTSWL C CRITI,PHERS

07046 39 07843 00100
 07058 34 00000 00102
 07070 48 00000 00000
 07082 49 03424 00000
 07090 12 07113 00002
 07102 24 03345 02881
 07114 46 07090 01200
 07126 11 07113 00002
 07138 15 07113 00000
 07149 00001
 07150 49 07170 00000
 07158 15 03326 00001
 07170 14 02893 04144
 07182 46 07414 01200
 07194 26 07265 07812
 07206 11 07265 00001
 07218 11 07227 00001
 07230 24 07227 19540
 07242 46 07446 01100
 07254 43 07206 00000
 07266 25 07411 07227
 07278 25 07409 07226
 07290 25 07407 07225
 07302 17 03744 07334
 07314 11 03325 00001
 07326 49 07206 00000
 07335 00000
 07414 16 00565 07437
 07426 49 00532 07860
 07438 49 07602 00000
 07446 24 02526 03322

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07850	BL	NOGO		07458 47 07506 01300
07860	C	CRIT3,PHCERS,,CHECK CUTOFF		07470 24 02529 03325
07870	BL	NOGO		07482 47 07506 01300
07880	BTM	GETADJ,WC+9*20,711, LINK TO D1		07494 17 02618 02482
07890	NOGO	TD	FLFX,PHBERS	07506 25 07725 03322
07900	TD	FLFX-2,PHBERS-1		07518 25 07723 03321
07910	TD	FLFX-4,PHBERS-2		07530 25 07721 03320
07920	TD	FLF2,PHCERS		07542 25 07771 03325
07930	TD	FLF2-2,PHCERS-1		07554 25 07769 03324
07940	TD	FLF2-4,PHCERS-2		07566 25 07767 03323
07950	RCTY			07578 34 00000 00102
07960	WAFY	NDMMS		07590 39 07675 00100
07970	BDNN	BD	MONCAL,LCSW	07602 43 00796 03326
07980	BNC1	MONCAL,,,	**** SWITCH 1 ON FOR BATCH RUN ***	07614 47 00796 00100
07990	BNF	**24,PRSW		07626 44 07650 02522
08000	K	,971		07638 34 00000 00971
08010	BTM	GETADJ,WC+6*20		07650 17 02618 02422
08020	BTM	GETADJ,WC+7*20,711,LINK TO B		07662 17 02618 02442
08030	NDMMS	DAC	23,ERROR CUT-OFF -- ,,	07675 00046
08040	FLFX	DSAC	3,777	07725 00006
08050	DAC	20, LANGUAGE ERRORS	,,	07727 00040
08060	FLF2	DSAC	3,777	07771 00006
08070	DAC	18, REFERENCE ERRORS*		07773 00036
08080	TOSWAD	DSA	*--*	07812 00005 00000
08090	XREFC	DSAC	4,XREF	07821 00008
08100	TITLC	DSAC	5,TITLE	07831 00010
08110	ADMINC	DSAC	5,ADMIN	07841 00010
08120	NTITC	DAC	19,TITLE CARD MISSING*,,ACCORDING TO MCCOY	07843 00038
08130	TEMPC	DD	,WC+20,,A	07880 00002 22
				07882 00005 02322
				07887 00001 *

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08140	FCRTHC	TD	CNT,INPUT+20	07888 25 08235 02741
08150	TD	CNT-1,INPUT+18		07900 25 08234 02739
08160	TD	CNT-2,INPUT+16		07912 25 08233 02737
08170	SF	CNT-2		07924 32 08233 00000
08180	SM	CNT,1,10		07936 12 08235 00001
08190	TF	DMTR+11,TOSWAD		07948 26 08283 07812
08200	A	DMTR+11,CNT		07960 21 08283 08235
08210	TFM	CCOL,INPUT+22,,	SET POINTER ON XREF	07972 16 08091 02743
08220	TFM	CMC+11,INPUT+22		07984 16 08175 02743
08230	TF	AGUGO+11,HEDDSA+8*5		07996 26 08495 19544
08240	MM	CNT,5,10		08008 13 08235 00005
08250	A	AGUGO+11,99		08020 21 08495 00000
08260	SM	AGUGO+11,5,10		08032 12 08495 00005
08270	NULAB	AM	CMC+11,8,10	08044 11 08175 00008
08280	TFM	CAM+6,CLABL-6		08056 16 08134 09398
08290	TF	CLABL,CLR+6		08058 26 09404 03351
08300	BLSUP	C	CCZERO,*--*	08080 24 08115 00000
08310	CCOL	DS	,*	08091 00000
08320	BE	CMC-12		08092 46 08152 01200
08330	TFM	CAM+11,0,10		08104 16 08139 00000
08340	CCZERO	DS	,*	08115 00000
08350	A	CAM+11,CCOL,11		08116 21 08139 08091
08360	CAM	AM	*--*,*--*	08128 11 00000 00000
08370	AM	CAM+6,2,10		08140 11 08134 00002
08380	AM	CCOL,2,10		08152 11 08091 00002
08390	CMC	CM	CCOL,*--*	08164 14 08091 00000
08400	BL	BLSUP		08176 47 08080 01300
08410	AM	DMTR+11,1,10		08188 11 08283 00001
08420	AM	CNT,1,10		08200 11 08235 00001
08430	AM	AGUGO+11,5,10		08212 11 08495 00005
08440	CM	HEDDSA+9*5,0,9		08224 14 19649 00000

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08450	CNT	DS	,*	08235	00000
08460	BL	QCEND+24		08236	47 08308 01300
08470	CM	CLABL,0,1011		08248	14 09404 00000
08480	BNE	NOSKIP		08260	47 08328 01200
08490	TDMTR	B	QCEND,***,7	08272	49 08284 00000
08500	QCEND	CM	CCOL,INPUT+142,, IF CARD OVER	08284	14 08091 02853
08510	BL	NULAB		08296	47 08044 01300
08520	BLC	OUTC2	,,, ***FILL IN***	08308	46 07158 00900
08530	B7	READ		08320	49 03424 00000
08540	NOSKIP	BNF	AGOGO-12,TOMTR+11,11	08328	44 08472 08283
08550	TD	TWOME2+2,CNT-2		08340	25 08465 08233
08560	TD	TWOME2+4,CNT-1		08352	25 08467 08234
08570	TD	TWOME2+6,CNT		08364	25 08469 08235
08580	BTM	ERPRNT,TWOMES-1		08376	17 03744 08408
08590	AM	PHCERS,1,10		08388	11 03325 00001
08600	B7	QCEND		08400	49 08284 00000
08610	TWOMES	DAC	27,TRANSACTION CODED TWICE, NO	08409	00054
08620	TWOME2	DAC	5, 777*	08463	00010
08630	TDM	TDMTR+11,1,611		08472	15 08283 00001
08640	AGOGO	TF	TFNO+11,***,, FILL IN FROM HCDOSA+8*5	08484	26 08777 00000
08650	TF	**23,WC+18,,	AD OF START OF SYMTAB	08496	26 08519 02320
08660	C	CLABL,***,,	SEEK LABEL	08508	24 09404 00000
08670	BE	HAVIT		08520	46 08718 01200
08680	AM	**13,14,10		08532	11 08519 00014
08690	BNR	AGOGO+24,AGOGO+35,11		08544	45 08508 08519
08700	TD	NLBMES+90,CNT		08556	25 08715 08235
08710	TD	NLBMES+88,CNT-1		08568	25 08713 08234
08720	TD	NLBMES+86,CNT-2		08580	25 08711 08233
08730	BTM	ERPRNT,NLBMES-1		08592	17 03744 08624
08740	AM	PHCERS,1,10		08604	11 03325 00001
08750	B7	QCEND		08616	49 08284 00000

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08760	NLBMES	DAC	47,NO PRUG FOUND FOR THIS TRAN TYPL, TRANS NO 777*	08625	00094
08770	HAVIT	AM	AGOGO+35,1,10	08718	11 08519 00001
08780	TDM	AGOGO+35,1,611		08730	15 08519 00001
08790	AM	AGOGO+35,5,10		08742	11 08519 00005
08800	TF	TBNR+11,AGOGO+35,11,AD OF START OF ROUTINE		08754	26 08881 08519
08810	TFNO	TF	NOAMTS,***,, PROCESS TRANSACTION HEADER	08766	26 09057 00000
08820	AM	TFNO+11,3,10		08778	11 08777 00003
08830	TF	LITS,TFNO+11,11		08790	26 09005 08777
08840	BNF	NSUBL,NOAMTS		08802	44 08858 09057
08850	CF	NOAMTS		08814	33 09057 00000
08860	AM	TFNO+11,5,10		08826	11 08777 00005
08870	TF	SUBAC,TFNO+11,11		08838	26 09365 08777
08880	B7	**20		08850	49 08870 00000
08890	NSUBL	TFM	SUBAC,0	08858	16 09365 00000
08900	DC	1,*,*		08869	00001
08910*					
08920*		OBJECT DECODING LOOP			
08930*					
08940	TBNR	TD	AMB2+11,***	08870	25 09089 00000
08950	RNF	ADD,AMB2+11		08882	44 08926 09089
08960	CF	AMB2+11		08894	33 09089 00000
08970	TDM	CC+1,2		08906	15 09367 00000
08980	B7	**20		08918	49 08938 00000
08990	ADD	TDM	CC+1,1	08926	15 09367 00001
09000	AM	TBNR+11,5,10		08938	11 08881 00005
09010	BNR	MORYET,TBNR+11,11		08950	45 08970 08881
09020	B7	QCEND		08962	49 08284 00000
09030	MORYET	BNR	SOMAMT,AMB2+11	08970	45 09046 09089
09040	BNG	DISAMT,AMB2+11		08982	55 09014 09089
09050	TDM	AMB2+11,***		08994	15 09089 00000
09060	LITS	DS	,*	09005	00000

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09070	B7	**20			09006 49 09026 00000
09080	DISAMT	TD	AMB2+11,LITS-1		09014 25 09089 09004
09090	BD		SOMAMT,AMB2+11		09026 43 09046 09089
09100	B7		SOMAMT+24		09038 49 09070 00000
09110	SOMAMT	CM	AMB2+11,***		09046 14 09089 00000
09120	NOAMTS	DS	,*		09057 00000
09130	BNH		AMB2		09058 47 09078 01100
09140	B7		NXT		09070 49 09378 00000
09150	AMB2	MM	**9,L*100,710		09078 13 09087 00700
09160	BNZ		NUMAMT		09090 47 09134 01200
09170	TD		AMB2+11,LITS-2		09102 25 09089 09003
09180	CF		AMB2+11		09114 33 09089 00000
09190	B7		CISAMT+12		09126 49 09026 00000
09200	NUMAMT	TF	CO+11,TFNO+11		09134 26 09377 08777
09210	A		CO+11,99		09146 21 09377 00099
09220	TF		CO+6,TBNR+11,11		09158 26 09372 08881
09230	CM		CO+6,L,10		09170 14 09372 00007
09240	BH		CO		09182 46 09366 01100
09250	BNR		SLOKC,SUBAD		09194 45 09354 09365
09260	TD		SLMES+76,CNT		09206 25 09351 08235
09270	TD		SLMES+74,CNT-1		09218 25 09349 08234
09280	TD		SLMES+72,CNT-2		09230 25 09347 08233
09290	BTM		ERPRNT,SLMES-1		09242 17 03744 09274
09300	AM		PHCERS,1,10		09254 11 03325 00001
09310	B7		NXT		09266 49 09378 00000
09320	SLMES	DAC	40,SUBLEDDER USED ERRONEOUSLY, TRAN NO 777'		09275 00080
09330	SLOKC	AM	CO+6,***		09354 11 09372 00000
09340	SUBAD	DS	,*		09365 00000
09350	DD	A	***,***		09366 21 00000 00000
09360	NXT	AM	TBNR+11,1.10		09378 11 08881 00001
09370	B7		TBNR		09390 49 08870 00000

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09380	CLABL	DS	8		09404 00008
09390	TWOSC	DC	6,200002		09410 00006
09400	HEND	DSAC	4,END ,,		09419 00008
09410	BEGINC	TF	TOSWAD,HEDDSA+6*5		09420 26 07812 19634
09420	SM		TOSWAD,L,10		09432 12 07812 00007
09430	S		TOSWAD,HEDDSA+9*5		09444 22 07812 19649
09440	BTM		GETADJ,WC+20		09456 17 02618 02322
09450	BTM		GLTADJ,WC+5*20,711		09468 17 02618 02402
09460	CTCD	TFM	WC+5*20+18,LABCHK,, BEGIN C WITH CARD ALREADY READ		09480 16 02420 06938
09470	TFM		WC+18,BEGINC		09492 16 02320 09420
09480	TFM		WC+13,LABCHK		09504 16 02315 06938
09490	TFM		NUAD,LABCHK		09516 16 02565 06938
09500	TF		WC+8,CLDSA-2		09528 26 02310 09596
09510	BT		PUTADJ,PUTADJ-1		09540 27 02530 02529
09520	TRA				09552 16 02565 09571
					09564 49 02716 00000
					09571 00002 22
					09573 00005 09579
					09578 00001
					09579 00005 119783
					09585 00003 003
					09588 00005 00000
					09598 00005 02642
					09480
					09419 00000

09530 CLDSA DSA CTCD-LABCHK+100
09540 TCD CTCD
09550 ENDC DS ,BEGINC-1

09560*****
09570*
09580* PHASE 01 -- OUTPUT LEDGERS *
09590* *
09600*****
09610 DDOR I LABCHK

06938

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09620	EDIT	TF	EDITA,EDITF,,	CHANGE Q TO EDITE LATER	06938	26	07371	07311
09630		TF	EDCM+6,EDIT-1		06950	26	07084	06937
09640		BNF	**20,EDCM+6,11		06962	44	06982	07084
09650		B7	**32		06974	49	07006	00000
09660		TF	EDITA,CLR+2		06982	26	07371	03347
09670		CF	EDITA-3		06994	33	07368	00000
09680		TD	EDITA-4,EDCM+6,11		07006	25	07367	07084
09690		CF	EDITA-4		07018	33	07367	00000
09700		SM	EDCM+6,1,10		07030	12	07084	00001
09710		TD	EDITA-6,EDCM+6,11		07042	25	07365	07084
09720		SM	EDCM+6,1,10		07054	12	07084	00001
09730		TFM	TDED+6,EDITA-8		07066	16	07144	07363
09740	EDCM	CM	*-*,0,1011		07078	14	00000	00000
09750		BE	OUTED		07090	46	07186	01200
09760		SM	TDED+6,2,10		07102	12	07144	00002
09770		C	C23D1,TDED+6,11		07114	24	07213	07144
09780		BE	*-24		07126	46	07102	01200
09790	TDED	TD	*-*,EDCM+6,11		07138	25	00000	07084
09800		SM	EDCM+6,1,10		07150	12	07084	00001
09810		BNF	EDCM,EDCM+6,11		07162	44	07078	07084
09820		HD	LSTED,EDCM+6,11		07174	43	07214	07084
09830	OUTED	SM	TDED+6,1,10		07186	12	07144	00001
09840		SF	TDED+6,,6		07198	32	07144	00000
09850		BB2			07210	42	00000	00000
09860	C23D1	DC	2,23		07213		00000	
09870	LSTED	SM	TDED+6,2,10		07214	12	07144	00002
09880		C	C23D1,TDED+6,11		07226	24	07213	07144
09890		BE	*-24		07238	46	07214	01200
09900		TD	TDED+6,EDCM+6,611		07250	25	07144	07084
09910		CF	TDED+6,,6		07262	33	07144	00000
09920		B7	OUTED		07274	49	07186	00000

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09930	EDITF	DSAC	15,77,777,777.77CR,,		07311		00030	
09940	EDITE	DSAC	15,77,777,777.77-,,		07341		00030	
09950	EDITA	DS	30		07371		00030	
09960		DS	2		07373		00002	
09970	BLLIN	BD	K71,PRSW		07374	43	07436	02522
09980		PUT	PUNCH		07386	16	00565	07409
09990		SM	BLLIN-1,1,10		07398	49	00532	03327
10000		BP	BLLIN+12		07410	12	07373	00001
10010		BB2			07422	46	07386	01100
10020	K71	WN	CC+7,900		07434	42	00000	00000
10030		SM	BLLIN-1,1,10		07436	38	02719	00900
10040		BP	K71		07448	12	07373	00001
10050		BB2			07460	46	07436	01100
10060		DS	5		07472	42	00000	00000
10070	HEDLIN	BD	K61,PRSW,7		07478		00005	
10080		TF	OUTPUT+112,HEDLIN-1,11		07480	43	07536	02522
10090		PUT	DPUNCH		07492	26	03175	07479
10100		B7	CRS		07504	16	00565	07527
10110	K61	TF	OUTPUT+136,HEDLIN-1,11		07516	49	00532	03335
10120		PUT	PRINT		07528	49	07780	00000
10130		B7	CRS		07536	26	03201	07479
10140	TITLO	BD	K51,PRSW		07548	16	00565	07571
10150		TR	OUTPUT-1,TITSAV-1		07560	49	00532	03304
10160		TFM	TRSC+11,INPUT OUTPUT		07572	49	07780	00000
10170		AM	TRSC+11,2,10		07580	43	07708	02522
10180	TRSC	BNR	*-12,*-*		07592	31	03062	02890
10190		TFM	*-1,0,610		07604	16	07639	03063
10200		TF	OUTPUT+8,CLR+8		07616	11	07639	00002
					07628	45	07616	00000
					07640	16	07639	00000
					07652	26	03071	03353

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10210	TFM	OUTPUT+158,14,10	07664	16	03221	00014
10220	PUT	PUNCH	07676	16	00565	07699
			07688	49	00532	03327
10230	B7	CRS	07700	49	07780	00000
10240	K51	TR OUTPUT+39,TITSAV-1	07708	31	03102	02890
10250	K	,971	07720	34	00000	00571
10260	TF	OUTPUT+48,CLR+8	07732	26	03111	03353
10270	PUT	PRINT	07744	16	00565	07757
			07756	49	00532	03304
10280	TF	CUTPUT+238,CLR+78	07768	26	03301	03423
10290	CRS	TF OUTPUT+158,CLR+78	07780	26	03221	03423
10300	TF	CUTPUT+78,CLR+78	07792	26	03141	03423
10310	BB2		07804	42	00000	00000
10320	OUTLIN	BD K41,PRSW	07806	43	07850	02522
10330	PUT	PUNCH	07818	16	00565	07841
			07830	49	00532	03327
10340	B7	CRS	07842	49	07780	00000
10350	K41	PUT PRINT	07850	16	00565	07873
			07862	49	00532	03304
10360	BNI	CRS-12,3400	07874	47	07768	03400
10370	K	,971	07886	34	00000	00971
10380	B7	CRS-12	07898	49	07768	00000
10390	ASTS	DSAC 33,*****	07971		00066	
10400	FLD1	DSA OUTPUT+6	07976	00005	03069	
10410	FLD2	DSA OUTPUT+96	07981	00005	03159	
10420	FLD3	DSA OUTPUT+118	07986	00005	03181	
10430	FLD4	DSA OUTPUT+138	07991	00005	03201	
10440	FLD5	DSA OUTPUT+158	07996	00005	03221	
10450	TIMES	DSAC 5,TITLE,	08007		00010	
10460	ACTME2	DSAC 6,ACT NO,	08019		00012	
10470	BEGBAL	DSAC 9,BEG BAL ,,,	08037		00018	

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10480	TOTCR	DSAC 10,TOTAL CR ,,	08057		00020	
10490	TOTDB	DSAC 10,TOTAL DB ,,	08077		00020	
10500	ENDBAL	DSAC 11,ENDING BAL ,,	08099		00022	
10510	INCSTA	DSAC 33, INCOME STATEMENT ,,	08165		00066	
10520	ARTOT1	DC L,0	08172		00007	
10530	ARTOT2	DC L,0	08179		00007	
10540	ARTOT3	DC L,0	08186		00007	
10550	ARTOT4	DC L,0	08193		00007	
10560	TOTARS	DSAC 11,TOTALS \$,	08215		00022	
10570	ARTB	DSAC 33,ACCOUNTS RECEIVABLE TRIAL BALANCE	08281		00066	
10580	GLLOOP	TF GLBNF+11,-*-	08282	26	08377	00000
10590	TF	OUTPUT+6,GLBNF+11,11	08294	26	03069	08377
10600	AM	GLBNF+11,1,10	08306	11	08377	00001
10610	SF	GLBNF+11,,6	08318	32	08377	00000
10620	TF	TFLABD+6,FLD1	08330	26	08376	07976
10630	AM	CLBNF+11,2,10	08342	11	08377	00002
10640	AM	TFLABD+6,2,10	08354	11	08396	00002
10650	GLBNF	9NF *-24,-*-	08366	44	08342	00000
10660	SM	*-1,1,10	08378	12	08377	00001
10670	TFLABD	TF *-*,GLBNF+11,11	08390	26	00000	08377
10680	AM	EDGL1+6,S,10	08402	11	08444	00021
10690	BT	EDIT,EDGL1+11	08414	27	06938	08449
10700	TF	FLD2,EDITA,6	08426	26	07981	07371
10710	EDGL1	TF *-*,*-*	08438	26	00000	00000
10720	BT	EDIT,EDGL2+6	08450	27	06938	08504
10730	TF	FLD3,EDITA,6	08462	26	07986	07371
10740	A	EDGL1+6,EDGL2+6,611	08474	21	08444	08504
10750	AM	EDGL1+11,L,10	08486	11	08449	00007
10760	EDGL2	S *-*,EDGL1+11,11	08498	22	00000	08449
10770	DOFL3	AM EDGL2+6,L,10	08510	11	08504	00007
10780	BT	EDIT,EDGL2+6	08522	27	06938	08504

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10790	TF	FLD4,EDITA,6	08534	26	07991	07371
10800	S	EDGL1+6,EDGL2+6,611	08546	22	08444	08504
10810	AM	EDGL1+11,L,10	08558	11	08449	00007
10820	S	EDGL2+6,EDGL1+11,611	08570	22	08504	08449
10830	DOFL4 BT	EDIT,EDGL1+6	08582	27	06938	08444
10840	TF	FLD5,EDITA,6	08594	26	07996	07371
10850	BT	LUTLIN,UOFLIN-1	08606	27	07806	07805
10860	AM	EDGL1+11,L,10	08618	11	08449	00007
10870	AM	EDGL2+6,2*L,10	08630	11	08504	00014
10880	AM	GLLOOP+11.5,10	08642	11	08293	00005
10890	BNR	GLLOOP,GLLOOP+11,11	08654	45	08282	08293
10900	BTM	BLLIN,4,10	08666	17	07374	00004
10910	BTM	HEDLIN,ASTS	08678	17	07480	07971
10920	BT	HEDLIN,TITLES	08690	27	07480	19586
10930	BTM	BLLIN,1,10	08702	17	07374	00001
10940	BTM	HEDLIN,ARTB	08714	17	07480	08281
10950	BTM	BLLIN,1,10	08726	17	07374	00001
10960	BTM	HEDLIN,ASTS	08738	17	07480	07971
10970	BTM	BLLIN,2,10	08750	17	07374	00002
10980	TF	**30,FLD1	08762	26	08792	07976
10990	AM	**18,20,10	08774	11	08792	00020
11000	TF	**-,ACTME2	08786	26	00000	08019
11010	AM	*-6,20,10	08798	11	08792	00020
11020	TF	*-18,TIMES,6	08810	26	08792	08007
11030	TF	FLD2,BEGBAL,6	08822	26	07981	08037
11040	TF	FLD3,TOTDR,6	08834	26	07986	08077
11050	TF	FLD4,TOTCR,6	08846	26	07991	08057
11060	TF	FLD5,ENDBAL,6	08858	26	07996	08099
11070	BT	CUTLIN,CUTLIN-1	08870	27	07806	07805
11080	BTM	BLLIN,1,10	08882	17	07374	00001
11090	TF	ARBNF+11,HEODSA+4*5	08894	26	09037	19624

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11100	SM	ARBNF+11,2,10	08906	12	09037	00002
11110	TF	EDAR2+6,HEODSA+7*5	08918	26	09188	19639
11120	TF	EDAR1+11,HEODSA+3*5	08930	26	09109	19619
11130	TF	EDAR1+6,EDAR2+6	08942	26	09104	09188
11140	SM	EDAR1+6,S-2*L,10	08954	12	09104	00007
11150	ARLOOP TF	TFARLB+6,FLD1	08966	26	09056	07976
11160	AM	TFARLB+6,8,10	08978	11	09056	00008
11170	AM	ARBNF+11,1,10	08990	11	09037	00001
11180	AM	TFARLB+6,2,10	09002	11	09056	00002
11190	AM	ARBNF+11,2,10	09014	11	09037	00002
11200	ARBNF RNF	**24,**	09026	44	09002	00000
11210	SM	ARBNF+11,1,10	09038	12	09037	00001
11220	TFARLB TF	**-,ARBNF+11,11	09050	26	00000	09037
11230	AM	EDAR1+6,S,10	09062	11	09104	00021
11240	BT	EDIT,EDAR1+11	09074	27	06938	09109
11250	TF	FLD2,ED11A,6	09086	26	07981	07371
11260	EDAR1 TF	**-,**	09098	26	00000	00000
11270	A	ARTOT1,*-1,11	09110	21	08172	09109
11280	BT	EDIT,EDAR2+6	09122	27	06938	09188
11290	TF	FLD3,EDITA,6	09134	26	07986	07371
11300	A	ARTOT2,EDAR2+6,11	09146	21	08179	09188
11310	A	EDAR1+6,EDAR2+6,611	09158	21	09104	09188
11320	AM	EDAR1+11,L,10	09170	11	09109	00007
11330	EDAR2 S	**-,EDAR1+11,11	09182	22	00000	09109
11340	DCAR3 AM	EDAR2+6,L,10	09194	11	09188	00007
11350	BT	EDIT,EDAR2+6	09206	27	06938	09188
11360	TF	FLD4,EDITA,6	09218	26	07991	07371
11370	A	ARTOT3,EDAR2+6,11	09230	21	08186	09188
11380	S	EDAR1+6,EDAR2+6,611	09242	22	09104	09188
11390	AM	EDAR1+11,L,10	09254	11	09109	00007
11400	S	EDAR2+6,EDAR1+11,611	09266	22	09188	09109

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11410	DOAR4	BT	EDIT,EDAR1+6	09278	27	06938	09104
11420		TF	FLD5,EDITA,6	09290	26	07996	07371
11430		BT	OUTLIN,OUTLIN-1	09302	27	07806	07805
11440		A	ARTOT4,EDAR1+6,11	09314	21	08193	09104
11450		AM	EDAR1+11,L,10	09326	11	09109	00007
11460		AM	EDAR2+6,2*L,10	09338	11	09188	00014
11470		BNR	ARLOOP,EDAR1+11,11	09350	45	08966	09109
11480		BTM	BLLIN,2,10	09362	17	07374	00002
11490		TF	**30,FLD1	09374	26	09404	07976
11500		AM	**18,68,10	09386	11	09404	00058
11510		TF	*-*,TOTARS	09398	26	00000	08215
11520		BTM	EDIT,ARTOT1	09410	17	06938	08172
11530		TF	FLD2,EDITA,6	09422	26	07981	07371
11540		BTM	EDIT,ARTOT2	09434	17	06938	08179
11550		TF	FLD3,EDITA,6	09446	26	07986	07371
11560		BTM	EDIT,ARTOT3	09458	17	06938	08186
11570		TF	FLD4,EDITA,6	09470	26	07991	07371
11580		BTM	EDIT,ARTOT4	09482	17	06938	08193
11590		TF	FLD5,EDITA,6	09494	26	07996	07371
11600		BT	OUTLIN,OUTLIN-1	09506	27	07806	07805
11610		BT	TITLO,TITLO-1	09518	27	07580	07579
11620		BTM	HEDLIN,ASTS	09530	17	07480	07971
11630		BT	HEDLIN,TITLES	09542	27	07480	19686
11640		BTM	BLLIN,1,10	09554	17	07374	00001
11650		BTM	HEDLIN,INCSTA	09566	17	07480	08155
11660		BTM	BLLIN,1,10	09578	17	07374	00001
11670		BT	HEDLIN,TITLES+2*5	09590	27	07480	19696
11680		BTM	HEDLIN,ASTS	09602	17	07480	07971
11690		BTM	GETADJ,WC+10*20,711	09614	17	02618	02502
11700	GLOUT	TF	GLLOOP+11,HEDDSA+5*5	09626	26	08293	19629
11710		TF	EDGL2+6,HEDDSA+6*5	09638	26	08504	19634

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11720		TF	EDGL1+11,HEDDSA+2*5	09650	26	08449	19614
11730		TF	EDGL1+6,EDGL2+6	09662	26	08444	08504
11740		SM	EDGL1+6,S-2*L,10	09674	12	08444	00007
11750		BT	TITLO,TITLO-1	09686	27	07580	07579
11760		BTM	HEDLIN,ASTS	09698	17	07480	07971
11770		BT	HEDLIN,TITLES	09710	27	07480	19686
11780		BTM	BLLIN,1,10	09722	17	07374	00001
11790		BTM	HEDLIN,GLEDG	09734	17	07480	09999
11800		BTM	BLLIN,1,10	09746	17	07374	00001
11810		BT	HEDLIN,TITLES+5	09758	27	07480	19691
11820		BTM	HEDLIN,ASTS	09770	17	07480	07971
11830		BTM	BLLIN,2,10	09782	17	07374	00002
11840		TF	OUTPUT+6,ACTMES	09794	26	03069	09933
11850		TF	**30,FLD1	09806	26	09836	07975
11860		AM	**18,40,10	09818	11	09836	00040
11870		TF	*-*,TIMES	09830	26	00000	08007
11880		TF	FLD2,BEGBAL,6	09842	26	07981	08037
11890		TF	FLD3,TOTDB,6	09854	26	07986	08077
11900		TF	FLD4,TOTCR,6	09866	26	07991	08057
11910		TF	FLD5,ENDBAL,6	09878	26	07996	08099
11920		BT	OUTLIN,OUTLIN-1	09890	27	07806	07805
11930		BTM	BLLIN,1,10	09902	17	07374	00001
11940		BTM	GETADJ,WC+4*20,711	09914	17	02618	02382
11950	ACTMES	DSAC	4,ACCT	09933	00008		
11960	GLEDG	DSAC	33, GENERAL LEDGER	09999	00066		
11970	DITCD	BNF	NOPRD,PRSW	10000	44	10072	02522
11980		TFM	FLD1,OUTPUT+16	10012	16	07976	03079
11990		TFM	FLD2,OUTPUT+116	10024	16	07981	03179
12000		TFM	FLD3,OUTPUT+146	10036	16	07986	03209
12010		TFM	FLD4,OUTPUT+176	10048	16	07991	03239
12020		TFM	FLD5,OUTPUT+206	10060	16	07996	03269

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12030 NOPRD TFM WC+4*20+18, GLL00P
 12040 TFM WC+18, GLOUT
 12050 TFM NUAD, EDIT
 12060 TFM WC+13, EDIT
 12070 TF WC+8, D10SA-2
 12080 BT PUTADJ, PUTADJ-1
 12090 TRA

10072 16 02400 08237
 10084 16 02320 09526
 10096 16 02565 06938
 10108 16 02315 06938
 10120 26 02310 10188
 10132 27 02530 02529
 10144 16 00565 10163
 10156 49 00716 00000
 10163 00002 22
 10165 00005 10171
 10170 00001 *
 10171 00006 119783
 10177 00003 003
 10180 00006 00000*
 10190 00005 03162
 10000
 09625 00000

12100 D10SA DSA D1TCD-EDIT+100
 12110 TCD D1TCD
 12120 ENDD1 DS ,GLOUT-1

12130*****
 12140*
 12150* PHASE D2 -- OUTPUT INCOME STATEMENT *
 12160* AND BALANCE SHEET *
 12170*
 12180*****

12190 DORG TIMES-1
 12200 BEGND2 BTM GETADJ, WC+2*20
 12210 TFM EDIT+11, EDITE
 12220 TF EDIS+11, HEDDSA+5
 12230 TF TFMD2+11, FLD1
 12240 AM TFMD2+11, 20, 10
 12250 TF ISBNF+11, HFODSA
 12260 SM ISBNF+11, 2, 10

08006
 08006 17 02618 02342
 08018 16 06949 07341
 08030 26 08149 19509
 08042 26 08221 07976
 08054 11 08221 00020
 08066 26 08125 19604
 08078 12 08125 00002

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12270 ISLOOP AM ISBNF+11, 3, 10
 12280 AM ISBNF+11, 2, 10
 12290 ISBNF BNF *-12, *-
 12300 SM *-1, 1, 10
 12310 EDIS TF EDIT0, *-
 12320 TF TFLBIS+11, ISBNF+11
 12330 SM TFLBIS+11, 2, 10
 12340 TFM MMIS+11, 79, 10
 12350 S MMIS+11, ISBNF+11, 11
 12360 AM ISBNF+11, 2, 10
 12370 TFMD2 TFM TFLBIS+6, *-
 12380 A TFLBIS+6, ISBNF+11, 11
 12390 TFLBIS TF *-*, *-
 12400 MMIS MM **9, 900, 710
 12410 TFM ISB7+6, ISBTAB, 711
 12420 S ISB7+6, 99
 12430 ISB7 B7 *-
 12440 ISBTAB DSA K9, K8, K7, K6, K5, K4, K3, K2, K1, K0

08090 11 08125 00003
 08102 11 08125 00002
 08114 44 08102 00000
 08126 12 08125 00001
 08138 26 08583 00000
 08150 26 08245 08125
 08162 12 08245 00002
 08174 16 08257 00079
 08186 22 08257 08125
 08198 11 08125 00002
 08210 16 08240 00000
 08222 21 08240 08125
 08234 26 00000 00000
 08246 13 08255 00500
 08258 16 08288 08203
 08270 22 08288 00000
 08282 49 00000 00000
 08293 00005 08540
 08298 00005 09000
 08303 00005 08968
 08308 00005 08900
 08313 00005 08808
 08318 00005 08716
 08323 00005 08672
 08328 00005 08560
 08333 00005 08628
 08338 00005 08608
 08343 00005 09056
 08348 00005 09112
 08353 00005 09132
 08358 00005 09152

12450 DSA KZ, KY, KX, KW, KV, KU, KT, KS, KBAD, KBAD

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12460 DSA KR,KQ,KP,KO,KN,KM,KL,KK,KJ

08363 00005 09208
08368 00005 09228
08373 00005 09248
08378 00005 09268
08383 00005 08434
08388 00005 08434
08393 00005 09288
08398 00005 09308
08403 00005 09328
08408 00005 09348
08413 00005 09368
08418 00005 09424
08423 00005 09528
08428 00005 09670
08433 00005 09626

12470*

12480* YES, THIS IS THE PLACE WHERE ONE CAN ADD ADDRESSES

12490* OF OUTPUT ROUTINES TO THE ABOVE SET

12500*

12510 KRAD RCTY
12520 WATY KPADMS
12530 CALL EXIT
12540 KRADMS DAC 37,BAD OUTPUT CODE IN I.S., U.S. LABELS
12550 K9 S C2T,EDITQ,11
12560 B7 **20
12570 K2 A C2T,EDITQ,11
12580 BTM EDIT,**
12590 EDITQ DS ,*
12600 TF FLD3,EDITA,6
12610 ADV AM EDIS+11,5,10
12620 KO BT OUTLIN,OUTLIN-1

08434 34 00000 00100
08446 39 08467 00100
08458 49 00796 00000
08467 00074
08540 22 10619 08583
08552 49 08572 00000
08560 21 10619 08583
08572 17 06938 00000
08583 00000
08584 26 07986 07371
08596 11 08149 00000
08608 27 07806 07805

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12630 B7 ISLOOP
12640 K1 A C1T,EDITQ,11
12650 BT EDIT,EDITQ
12660 TF FLD2,EDITA,6
12670 B7 ADV
12680 K3 A C3T,EDITQ,11
12690 BT EDIT,EDITQ
12700 TF FLD4,EDITA,6
12710 B7 ADV
12720 K4 A C1T,EDITQ,11
12730 BT EDIT,EDITQ
12740 TF FLD2,EDITA,6
12750 BTM EDIT,C1T
12760 TF FLD3,EDITA,6
12770 A C2T,C1T
12780 TF C1T,D2ZERO
12790 B7 ADV
12800 K5 A C2T,EDITQ,11
12810 BT EDIT,EDITQ
12820 TF FLD3,EDITA,6
12830 BTM EDIT,C2T
12840 TF FLD4,EDITA,6
12850 A C3T,C2T
12860 TF C2T,D2ZERO
12870 B7 ADV
12880 K6 BTM EDIT,C3T
12890 TF FLD4,EDITA,6
12900 TF **30,FLD4
12910 SM **18,22,10
12920 TFM ***,13,10
12930 B7 KO

08620 49 08090 00000
08628 21 10612 08583
08640 27 06938 08583
08652 26 07981 07371
08664 49 08596 00000
08672 21 10626 08583
08684 27 06938 08583
08696 26 07991 07371
08708 49 08596 00000
08716 21 10612 08583
08728 27 06938 08583
08740 26 07981 07371
08752 17 06938 10612
08764 26 07986 07371
08776 21 10619 10612
08788 26 10612 10640
08800 49 08596 00000
08808 21 10619 08583
08820 27 06938 08583
08832 26 07986 07371
08844 17 06938 10619
08856 26 07991 07371
08868 21 10626 10619
08880 26 10619 10640
08892 49 08596 00000
08900 17 06938 10626
08912 26 07991 07371
08924 26 08954 07991
08936 12 08954 00022
08948 16 00000 00013
08960 49 08608 00000

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12940	K7	BTM	EDIT,C2T	08968	17	06938	10619
12950		TF	FLD3,EDITA,6	08980	26	07986	07371
12960		B7	K0	08992	49	08608	00000
12970	K8	BTM	EDIT,C2T	09000	17	06938	10619
12980		TF	FLD4,EDITA,6	09012	26	07991	07371
12990		A	C3T,C2T	09024	21	10626	10619
13000		TF	C2T,D2ZERO	09036	26	10619	10640
13010		B7	K0	09048	49	08608	00000
13020	KZ	TFM	**23,STOR1	09056	16	09079	10647
13030		BTM	EDIT,*--*	09068	17	06938	00000
13040		TF	FLD2,EDITA,6	09080	26	07981	07371
13050		A	C1T,KZ+23,11	09092	21	10612	09079
13060		B7	K0	09104	49	08608	00000
13070	KY	TFM	KZ+23,STOR2	09112	16	09079	10654
13080		B7	KZ+12	09124	49	09068	00000
13090	KX	TFM	KZ+23,STOR3	09132	16	09079	10651
13100		B7	KZ+12	09144	49	09068	00000
13110	KW	TFM	**23,STOR1	09152	16	09175	10647
13120		BTM	EDIT,*--*	09164	17	06938	00000
13130		TF	FLD3,EDITA,6	09176	26	07986	07371
13140		A	C2T,KW+23,11	09188	21	10619	09175
13150		B7	K0	09200	49	08608	00000
13160	KV	TFM	KW+23,STOR2	09208	16	09175	10654
13170		B7	KW+12	09220	49	09164	00000
13180	KU	TFM	KW+23,STOR3	09228	16	09175	10651
13190		B7	KW+12	09240	49	09164	00000
13200	KT	TF	STOR1,C3T	09248	26	10647	10626
13210		B7	ISLOOP	09260	49	08090	00000
13220	KS	TF	STOR2,C3T	09268	26	10654	10526
13230		B7	ISLOOP	09280	49	08090	00000
13240	KR	TF	STOR3,C3T	09288	26	10661	10626

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13250		B7	ISLOOP	09300	49	08090	00000
13260	KW	TF	STOR1,C2T	09308	26	10647	10619
13270		B7	ISLOOP	09320	49	08090	00000
13280	KP	TF	STOR2,C2T	09328	26	10654	10619
13290		B7	ISLOOP	09340	49	08090	00000
13300	KD	TF	STOR3,C2T	09348	26	10661	10619
13310		B7	ISLOOP	09360	49	08090	00000
13320	KN	TF	C1T,D2ZERO	09368	26	10612	10640
13330		TF	C2T,D2ZERO	09380	26	10619	10640
13340		TF	C3T,D2ZERO	09392	26	10626	10640
13350		TF	C4T,D2ZERO	09404	26	10633	10640
13360		B7	ISLOOP	09416	49	08090	00000
13370	KM	BT	TITLO,TITLO-1	09424	27	07580	07579
13380		BTM	HEOLIN,ASTS	09436	17	07480	07971
13390		BT	HEOLIN,TITLES	09448	27	07480	19686
13400		BTM	BLLIN,1,10	09460	17	07374	00001
13410		BTM	HEOLIN,BALSH	09472	17	07480	09625
13420		BTM	BLLIN,1,10	09484	17	07374	00001
13430		BT	HEOLIN,TITLES+3*5	09496	27	07480	19701
13440		BTM	HEOLIN,ASTS	09508	17	07480	07971
13450		B7	KN	09520	49	09368	00000
13460	KL	BT	TITLO,TITLO-1	09528	27	07580	07579
13470		BTM	BLLIN,1,10	09540	17	07374	00001
13480		B7	KN	09552	49	09368	00000
13490	BALSH	DSAC	33, BALANCE SHEET	09625	00006		
13500	KJ	TF	FLD4,ASTS-66+22,6	09626	26	07991	07927
13510		TFM	FLD4,0,610	09638	16	07991	00000
13520		BT	OUILIN,OUILIN-1	09650	27	07806	07805
13530		B7	ISLOOP	09662	49	08090	00000
13540	KK	TF	FLD4,ASTS-66+22,6	09670	26	07991	07927
13550		TFM	FLD4,0,610	09682	16	07991	00000

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13560	BT	OUTLIN,OUTLIN-1	09694	27	07806	07805
13570	AM	FEDLIN+18,8,10	09706	11	07498	00008
13580	AM	K61+6,8,10	09718	11	07542	00008
13590	BTM	BLLIN,4,10	09730	17	07374	00004
13600	A	C3T,STOR3	09742	21	10626	10661
13610	BTM	EDIT,C3T	09754	17	06938	10626
13620	CM	C3T,0	09766	14	10626	00000
13630	BE	BINGO	09778	46	09858	01200
13640	A	GOOF,EDITA	09790	21	10477	07371
13650	BTM	FEDLIN,GOOF	09802	17	07480	10477
13660	TF	GOOF,ASTS	09814	26	10477	07971
13670	TF	GOOF-16,ASTS	09826	26	10461	07971
13680	BTM	FEDLIN,GOOF	09838	17	07480	10477
13690	B7	SEER	09850	49	09894	00000
13700 BINGO	BTM	FEDLIN,BING	09858	17	07480	10605
13710	TF	BING-36,ASTS-56	09870	26	10569	07915
13720	BTM	FEDLIN,BING	09882	17	07480	10605
13730 SEER	CM	PHBERS,0,210	09894	14	03322	00000
13740	RNE	OUTNOT	09906	47	09962	01200
13750	AM	SEER+6,3,10	09918	11	09900	00003
13760	CM	SEER+6,PHCERS	09930	14	09900	03325
13770	BNH	SEER	09942	47	09894	01100
13780	B7	ALLDON	09954	49	10010	00000
13790 OUTNOT	BTM	FEDLIN,NOTE	09962	17	07480	10559
13800	TF	GOOF,ASTS	09974	26	10477	07971
13810	TF	GOOF-16,ASTS	09986	26	10461	07971
13820	BTM	FEDLIN,GOOF	09998	17	07480	10477
13830 ALLDON	BD	**44,PRSW	10010	43	10054	02522
13840	TFM	OUTPUT,33,10	10022	16	03063	00033
13850	BT	OUTLIN,OUTLIN-1	10034	27	07806	07805
13860	B7	**20	10046	49	10066	00000

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13870	K	,971	10054	34	00000	00971
13880	TF	TBOX-4,EDITA	10066	26	10279	07371
13890	TD	FLFY,PHBERS	10078	25	10291	03322
13900	TD	FLFY-2,PHBERS-1	10090	25	10289	03321
13910	TD	FLFY-4,PHBERS-2	10102	25	10287	03320
13920	TD	FLY,PHCERS	10114	25	10335	03325
13930	TD	FLY-2,PHCERS-1	10126	25	10333	03324
13940	TD	FLY-4,PHCERS-2	10138	25	10331	03323
13950	RCTY		10150	34	00000	00102
13960	WATY	MONNS	10162	39	10223	00100
13970	BNCL	MONCAL	10174	47	00796	00100
13980	BD	MONCAL,LCSW,, THIS MUST BE SET SOMEWHERE YET	10186	43	00796	03326
13990	BTM	GETADJ,WC+6*20	10198	17	02618	02422
14000	BTM	GETADJ,WC+7*20,711, LINK TO B	10210	17	02618	02442
14010 MONNS	DAC	17,BAL. SHEET ERROR ,,	10223	00034		
14020 TBOX	DC	28,2300	10283	00028		
14030 FLY	DSAC	4, 777	10291	00008		
14040 FLY	DSAC	22, LANGUAGE ERRORS 777	10335	00044		
14050	DAC	18, REFERENCE ERRORS*	10337	00036		
14060 OOG	BTM	GETADJ,WC+6*20	10372	17	02618	02422
14070	BTM	GETADJ,WC+7*20,711	10384	17	02618	02442
14080 GOOF	DSAC	41, YOU GOOFED, OUT OF BALANCE BY ..	10477	00082		
14090 NOTE	DSAC	41, BUT NOTE PROGRAMMING ERRORS ABOVE ..	10559	00082		
14100 BING	DSAC	23,BINGO ..	10605	00046		
14110 C1T	DC	L,0	10612	00007		
14120 C2T	DC	L,0	10619	00007		
14130 C3T	DC	L,0	10626	00007		
14140 C4T	DC	L,0	10633	00007		
14150 D2ZERO	DC	L,0	10640	00007		
14160 STOR1	DC	L,0	10647	00007		
14170 STOR2	DC	L,0	10654	00007		

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14180	STOR3	DC	L,0	10661	00007
14190	D2TCD	TFM	WC+18,BEGND2	10662	16 02320 08006
14200		TFM	WC+13,BEGND2	10674	16 02315 08006
14210		TFM	NUAD,BEGND2	10686	16 02565 08006
14220		TF	WC+8,D2DSA-2	10698	26 02310 10743
14230		BLC	**12	10710	46 10722 00900
14240		BT	PUTADJ,PUTADJ-1	10722	27 02530 02529
14250		B7	00G	10734	49 10372 00000
14260	D2DSA	DSA	C2TCD-BEGND2+100	10745	00005 02756
14270	ENDD2	DS	,C2TCD-1	10661	00000
14280	DEND	C2TCD		10662	

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A *** UNDEFINED ***

00510	WCDD	DD	,WC,,,A,	WISAL WILL UPDATE TO WORK CYLINDERS ITSELF
08130	TEMPC	DD	,WC+20,,,A	

04320ACLAB C CLR,***

04290	ISLAB	TFM	ACLAB+11,INPUT+14,,COLLECT * LEFT-JUSTIFYING LABEL
04360		A	AMB+11,ACLAB+11,11
04380		AM	ACLAB+11,2,10
04390		CM	ACLAB+11,INPUT+27
04400		BL	ACLAB

11950ACTMESDSAC 4,ACCT

11840		TF	OUTPUT+6,ACTMES
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10460ACTME2DSAC 6,ACT NO,

11000		TF	***,ACTME2
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03950AD DSA ***

04640		TF	AD,INSAU
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08990ADD TOM D0+1,1

08950		BNF	ADD,AMB2+11
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00910ADJF DS ,*

00000		TF	ADJF,NUAD
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00810	S	ADJF,WC+13	
01170	TF	SM7+11,ADJF,,	SAVE UPDATABLE BLOCK ADJUSTMENT
01310	A	HEDDSA,ADJF,,	FOR PHASE D2 USE
01320	A	HEDDSA+5,ADJF	
01370	A	HEDDSB,ADJF,,	TO SAVE ADJUSTED START OF
01390	TF	**35,ADJF	
01400	TFM	ADJF,U	
01410	SM	ADJF,--*	
01460	A	HEDDSA+2*5,ADJF	
01470	A	HEDDSA+3*5,ADJF,,	UPDATE HEADER DSA-S
01480	A	HEDDSA+4*5,ADJF,,	FOR PHASE D1 USE
01490	A	HEDDSA+5*5,ADJF	
01580UPS2	A	S2+11,ADJF,6	
01620	A	HEDDSA+8*5,ADJF	

04280ADMIN DSAC 5,ADMIN

03990 C ADMIN,INPUT+8

08110ADMINCSAC 5,ADMIN

07500 C ADMINC,INPUT+8

02710ADMNA2DSAC 5,ADMIN

02630 C INPUT+8,ADMNA2

07120ADREG DC 5,0

05970DHEND TFM ADREG,0
05990CREND TFM ADREG,L
06920 TF OBJAD,ADREG

12610ADV AM DIS+11,5,10

12670 B7 ADV

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12710 B7 ADV
12790 B7 ADV
12870 B7 ADV

08640AGOGO TF TEND+11,*-*,, FILL IN FROM HEDDSA+8*5

08230 TF AGOGO+11,HEDDSA+8*5
08250 A AGOGO+11,99
08260 SM AGOGO+11,5,10
08430 AM AGOGO+11,5,10
08540NSKIPBNF AGOGO-12,TDMTR+11,11
08600 BNR AGOGO+24,AGOGO+35,11
08690 BNR AGOGO+24,AGOGO+35,11
08770HAVIT AM AGOGO+35,1,10
08780 TDM AGOGO+35,1,611
08790 AM AGOGO+35,5,10
08800 TF TBNR+11,AGOGO+35,11,AD OF START OF ROUTINE

13830ALLDONRD **44.PRSW

13780 B7 ALLDON

07090ALPHANDSAC 4,7777

05000 TFM TDNUM+6,ALPHAN-6,, THIS AINT NO NUMERIC
05200TNUM TD ALPHAN-6,CUL,11, NO
05210 CM *-6,ALPHAN,, HAVE WE 4 NUMERICS
06810 TFM TDNUM+6,ALPHAN-6
06830 C ALPHAN,*-*

04370AMR AM ***,*-*

04310 TFM AMB+6,HOLAB-8
04330 BE AMR+12
04340 AM AMB+6,2,10
04350 TFM AMB+11,0,10
04360 A AMB+11,ACLAB+11,11

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06930AMBA AM OBJAD, *-*

06800 TF AMBA+11, HEDDSA+6*5
06840 BE AMBA-12
06860 AM AMBA+11, S, 10, S LIKE IN SHEEPSHEAD
06910CSFND TFM AMBA+11, 0

09150AMB2 MM **9, L=100, 710

08940TBNR TD AMB2+11, *-*
08950 BNF ADD, AMB2+11
08960 CF AMB2+11
09030MDRYETBNR SOMAMT, AMB2+11
09040 BNG DISAMT, AMB2+11
09050 TDM AMB2+11, *-*
09080DISAMTTD AMB2+11, LITS-1
09090 BD SOMAMT, AMB2+11
09110SOMAMTCM AMB2+11, *-*
09130 BNH AMB2
09170 TD AMB2+11, LITS-2
09180 CF AMB2+11

06730AMDSA DSA -AMTSW, HOSW, -DCSW

06620 BTM LGCAND, AMDSA

06750AMDSA2DSA -OBSW, -SGSW, -SGSW2

06600 BTM LGCAND, AMDSA2

06590AMFND BD UPCOL6, CDVSW

05640AMT DVLC ,2,41,2,54,2,-63,5,MINUS+2,2,99,5,AMFND

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07160AMMES DAC 19, IMPROPER STATEMENT*

06640 BTM ERPRNT, AMMES-1
07180BMMES DS ,AMMES
07190BBDJC DS ,AMMES

05640AMT DVLC ,2,41,2,54,2,-63,5,MINUS+2,2,99,5,AMFND

05030 BTM SCAN, AMT
05690CASH DVLC ,2,43,2,-41,5,CREDIT+2,2,-62,5,AMT+2,2,48,2,99,5,CASH

06770AMTN TD INST, COL, 11, AMT N FOUND

05190 BD AMTN, AMTSW,, IS THIS LIKE AMT N

02580AMTSW DSC 1, 0,, AMT LAST FOUND, NUMBER OF C, D, V YET

05190 BD AMTN, AMTSW,, IS THIS LIKE AMT N
06120DSWMLBDSA -DCSW, -OBSW, -CDVSW, -AMTSW
06290 BD RSAMT, AMTSW,, DID 'AMT' SHOW UP PREVIOUSLY
06350 TDM AMTSW, 0
06680 TDM AMTSW, 1, 11
06730AMDSA DSA -AMTSW, HOSW, -DCSW
07010BDSA DSA DCSW, -OBSW, -AMTSW, -CDVSW
07030BDSA2DSA OBSW, -DCSW, -AMTSW, -CDVSW, -LPSW, -SGSW2

11200ARBNE BNF *-24, *-*

11090 TF ARBNE+11, HEDDSA+4*5
11100 SM ARBNE+11, 2, 10
11170 AM ARBNE+11, 1, 10
11190 AM ARBNE+11, 2, 10
11210 SM ARBNE+11, 1, 10
11220TFARLBTM *-*, ARBNE+11, 11

03920AREA DSS LNTH

06460 TD AREA, INST, 2

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11150ARL00PTF TFARLB+6,FLD1
 11470 BNR ARLOOP,EDAR1+11,11

10570ARTB DSAC 33,ACCOUNTS RECEIVABLE TRIAL BALANCE
 10940 BTM HEDLIN,ARTB

10520ARTOT1DC L,0
 11270 A ARTOT1,*-1,11
 11520 BTM EDIT,ARTOT1

10530ARTOT2DC L,0
 11300 A ARTOT2,EDAR2+6,11
 11540 BTM EDIT,ARTOT2

10540ARTOT3DC L,0
 11370 A ARTOT3,EDAR2+6,11
 11560 BTM EDIT,ARTOT3

10550ARTOT4DC L,0
 11440 A ARTOT4,EDAR1+6,11
 11580 BTM EDIT,ARTOT4

05630ASH DVLC ,2,41,2,-86,5,CASH+9
 05610CREDITDVLC ,2,43,2,-59,5,ASH,2,45,2,44,2,-49,5,DEBIT+2,2,-63

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10390ASTS DSAC 33,*****

10910 BTM HEDLIN,ASTS
10960 BTM HEDLIN,ASTS
11620 BTM HEDLIN,ASTS
11680 BTM HEDLIN,ASTS
11760 BTM HEDLIN,ASTS
11820 BTM HEDLIN,ASTS
13380 BTM HEDLIN,ASTS
13440 BTM HEDLIN,ASTS
13500KJ TF FLD4,ASTS-66+22,6
13540KK TF FLD4,ASTS-66+22,6
13660 TF GOOD,ASTS
13670 TF GOOD-16,ASTS
13710 TF HING-36,ASTS-56
13800 TF GOOD,ASTS
13810 TF GOOD-16,ASTS

03490A40SA DSA A4TCD-DCSW+100
 03460 TF WC+8,A40SA-2

03430A4TCD TFM WC+13,DCSW
 03490A40SA DSA A4TCD-DCSW+100
 03500 TCD A4TCD

03840A50SA DSA A5TCD-DCSW+100
 03810 TF WC+8,A50SA-2

03790A5TCD BNF TRA5,PRSW
 03840A50SA DSA A5TCD-DCSW+100
 03850 TCD A5TCD

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03910 DORG A5TCD

BACKTO *** UNDEFINED ***

01780TRA1 TRA BACK TO DU PHASE A2

07170BADACTDAC 32, NONEXISTANT ACCOUNT NUMBER USED*

06880 BTM ERPRNT, BAD ACT-1

07190BADDC DS , AMMES

06050 BTM ERPRNT, BADDC-1

04710BADLABDAC 31, PREVIOUS ROUTINE NOT COMPLETED*

04460 BTM ERPRNT, BADLAB-1,, FOR BEGINNING A NEW ROUTINE
05870 BTM ERPRNT, BADLAB-1

06210BADRP DAC 18, PARENTHESIS ERROR*

06170 BTM ERPRNT, BADRP-1

13490BALSH DSAC 33, BALANCE SHEET ,,

13410 BTM HEDLIN, BALSH

04880BB2 882 ,,, OR OUT

05370 BNF BR2, OBJ,, COLUMN VS. CONTROL UNEQUAL, OUT IF NONAMBIG

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04820BDL BNF PSEEK+12, *-*,, IS IT

04790 TF BDL+11, LGCAND-1, 11, PULL IN INPUT SW ADDRESS
04800 BNF PSEEK+BDL+11,, BRANCH IF THE SW IS DESIRED TO BE OFF
04810 CF BDL+11,, SW DESIRED TO BE ON
04820PSEEK BNF BDL+12, BDL+11, 11, SW DESIRED TO BE OFF, BRANCH IF ON
04830PSEEK BNF BDL+12, BDL+11, 11, SW DESIRED TO BE OFF, BRANCH IF ON

07970BDNN BD MONCAL, LCSW

07830 B7 BDNN,, REMOVE IF ADMIN RUN SHOULD PRODUCE OUTPUT

10470BEGBALDSAC 9, BEG BAL ,,,

11030 TF FLD2, BEGBAL, 6
11880 TF FLD2, BEGBAL, 6

07200BEGINBRCTY

07280TCOR TFM WC+18, BEGINB

09410BEGINCTH TQSWAD, HEDDSA+6*5

09470 TFM WC+18, BEGINC
09550ENDC DS , REGIN-1

12200BEGND2RTM GETADJ, WC+2*20

14190D2TCR TFM WC+18, BEGND2
14200 TFM WC+13, BEGND2
14210 TFM NUAD, BEGND2
14260D2DSA DSA D2TCR-BEGND2+100

14100BING DSAC 23, BINGO ,,

13700BINGO BTM HEDLIN, BINGO

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13710 TF BING-36,ASTS-56
13720 BTM HEDLIN,BING

13700BINGO BTM HEDLIN,BING

13630 BE BINGO

09970BLLIN BD K71,PAW

09990 SM BLLIN-1,1,10
10000 BP BLLIN+12
10030 SM BLLIN-1,1,10
10900 BTM BLLIN,4,10
10930 BTM BLLIN,1,10
10950 BTM BLLIN,1,10
10970 BTM BLLIN,2,10
11080 BTM BLLIN,1,10
11480 BTM BLLIN,2,10
11640 BTM BLLIN,1,10
11660 BTM BLLIN,1,10
11780 BTM BLLIN,1,10
11800 BTM BLLIN,1,10
11830 BTM BLLIN,2,10
11930 BTM BLLIN,1,10
13400 BTM BLLIN,1,10
13420 BTM BLLIN,1,10
13470 BTM BLLIN,1,10
13590 BTM BLLIN,4,10

08300BLSUP C CCZERO,***

08400 BL BLSUP

01550BNF2 BNF UPS2,***, TRANSACTIONS HAVING SUBLEDGER HAVE FLAG

01560 AM BNF2+11,8,10
01570SM7 AM BNF2+11,***,6

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04250BTITL1DAC 50,A TITLE CARD HAS BEEN FOUND IN THE SOURCE PROGRAM*

04110 WATY BTITL1

04260BTITL2DAC 46,SW 2 OFF TO CONTINUE AND IGNORE, ON TO ACCEPT*

04130 WATY BTITL2

06220CAFND TDM INST,0,, CASH

05690CASH DVLC ,2,43,2,-41,5,CREDIT+2,2,-62,5,AMT+2,2,48,2,99,5,CAFND

08360CAM AM ***,***

08280 TFM CAM+6,CLABL-6
08330 TFM CAM+11,0,10
08350 A CAM+11,CCOL,11
08370 AM CAM+6,2,10

02470CARD DCA ,INPUT

02600GETA2 GET CARD
03080 GET CARD

05690CASH DVLC ,2,43,2,-41,5,CREDIT+2,2,-62,5,AMT+2,2,48,2,99,5,CAFND

05070 BTM SCAN,CASH
05630ASH DVLC ,2,41,2,-86,5,CASH+9

02730CA2 C CCA2,INPUT+160,7

02720TRA2 SM CA2+11,2,10

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02750 AM CA2+11,2,10
02760 TDM CA2+11,0,6

02790CCA2 DC 2,0

02730CA2 C CCA2,INPUT+160,7

04190CCC C CLR,INPUT+160,7

04210 AM CCC+11,2,10
04220 TDM CCC+11,0,6

08310CCOL DS ,*

08210 TFM CCOL,INPUT+22,, SET POINTER ON XREF
08350 A CAM+11,CCOL,11
08380 AM CCOL,2,10
08390CM C CCOL,*-*
08500QCEND CM CCOL,INPUT+142,, IF CARD OVER

09340CCZERODS ,*

08300BLSUP C CCZERO,*-*

02570CDVSW DSC 1,C,, CASH, DISC, OR VOID LAST FOUND, NO AMT YET

06120DSWNLBDSA -DCSW,-DBSW,-CDVSW,-AMTSW
06330 TDM CDVSW,1,11
06590AMFND BD UPCOL6,CDVSW
06700UPCOL6TDM CDVSW,0
07010DBDSA DSA DCSW,-DBSW,-AMTSW,-CDVSW
07030DRDSA2DSA DBSW,-DCSW,-AMTSW,-CDVSW,-LPSW,-SGSW2

02400CFDD CF DD+1

02360GETADJBNF CFDD,*-1,, PERMANENT DISK INPUT ROUTINE 124

02390 B7 CFDD+12

01110CHOVLPCM HEDDSB,FNDA1

01010 BE CHOVL,, IS L THE SAME

04520CLAB C *-* ,HULAB

04490LASWOKTF CLAB+6,IRLAB+6
04500 AM CLAB+6,7,10
04510 B7 CLAB+36
04540 AM CLAB+6,14,10
04550 BNR CLAB,CLAB+6,11
04550 BNR CLAB,CLAB+6,11

09380CLABL DS 8

08280 TFM CAM+6,CLABL-6
08290 TF CLABL,CLR+6
08470 CM CLABL,0,1011
08660 C CLABL,*-*, SLEK LABEL

09530CLDSA DSA CTCO-LABCHK+100

09500 TF WC+8,CLDSA-2

03060CLR DAC 40, **

03340MES TF OUTPUT+78,CLR+78
03350 IF OUTPUT+158,CLR+78
03660 TF OUTPUT+46,CLR+46,, THIS IS THE CHITINERARY ERPRNT
04030NOCOL7C CLR+6,INPUT+20,, IS MNEMONIC FIELD BLANK
04190CCC C CLR,INPUT+160,7
04300 TF HULAB,CLR+6
04320ACLAB C CLR,*-*
07600TCMC C CLR,INPUT+160,7

08290	TF	CLABL,CLR+6
09660	TF	EDITA,CLR+2
10200	TF	OUTPUT+8,CLR+8
10260	TF	OUTPUT+48,CLR+8
10280	TF	OUTPUT+238,CLR+78
10290CRS	TF	OUTPUT+158,CLR+78
10300	TF	OUTPUT+78,CLR+78

06190CLRSN BTM SETSWS,RPDSA

06160	BNF	CLRSN,SGSW
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08390CMC CM CCOL,***

08220	TFM	CMC+11,INPUT+22
08270NULAR	AM	CMC+11,8,10
08320	BE	CMC-12

05130CM42 CM CCOL,***,, HAS ALL THAT MOVED POINTER

04990LSCANSTF	CM42+11,COL,,	SAVE POINTER
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08450CNT DS ,*

08140FORTHCTD	CNT,INPUT+20
08150	TD CNT-1,INPUT+18
08160	TD CNT-2,INPUT+16
08170	SF CNT-2
08180	SM CNT,1,10
08200	A TDMTR+11,CNT
08240	MM CNT,5,10
08420	AM CNT,1,10
08550	TD TWOME2+2,CNT-2
08560	TD TWOME2+4,CNT-1
08570	TD TWOME2+6,CNT
08700	TD NLRMES+90,CNT
08710	TD NLRMES+88,CNT-1
08720	TD NLRMES+86,CNT-2

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09260	TD	SLMES+76,CNT
09270	TD	SLMES+74,CNT-1
09280	TD	SLMES+72,CNT-2

07740CNTBD BD LPBD,***

07690	TF	CNTBD+11,TOSWAD
07700LPBD	AM	CNTBD+11,1,10

05350COL DS **, MAINLINE HAS SET COL NON-BLANK COMING IN

04650CNT	TFM	COL,INPUT+22
04990LSCANSTF	CM42+11,COL,,	SAVE POINTER
05130CM42	CM	COL,***,, HAS ALL THAT MOVED POINTER
05150SSUPP	C	CZERO,COL,11, SPACE SUPPRESS, ENTERS HERE
05170IFNUM	C	C70B,COL,11, CHECK FOR NUMERICS
05200TDNUM	TD	ALPHAN-6,COL,11, NO
05240UPCOL	AM	COL,2,10, ONWARD, LIKE UP ON CARD
05250	CM	COL,ENDWDS,, IF END OF CARD
05400	C	OBJ,COL,11, AND COMPARE AGAIN
05430	SM	COL,2,10, KEEP SAME CARD COLUMN
05490RBACK	C	CZERO,COL,11, SUPPRESS BLANKS
05510NUEND	AM	COL,2,10, UP ON CARD
05520	CM	COL,ENDWDS,, IF END OF CARD
06770AHTN	TD	INST,COL,11, AMT N FOUND

04650CNT TFM COL,INPUT+22

04060	BNE	CNT
04420	BE	CNT,,, YES, CONTINUE

05610CREDITDVLC ,2,43,2,-59,5,ASH,2,45,2,44,2,-49,5,DEBIT+2,2,-63

05010	BTM	SCAN,CREDIT
05660CUST	DVLC	,2,43,2,-64,5,CREDIT+2,2,62,2,63,2,04,2,99,5,CSEND
05690CASH	DVLC	,2,43,2,-41,5,CREDIT+2,2,-62,5,AMT+2,2,48,2,99,5,CAFEND

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05990CRFND TFM ADREG,L

05620 DVLC ,5,DISC+9,2,99,5,CRFND

00390CRIT1 DC 3,10,,ALLOWABLE LANGUAGE ERRORS

07840OUTSWLC CRIT1,PHRERS

00400CRIT3 DC 3,15,,ALLOWABLE REFERENCE ERRORS

07860 C CRIT3,PHCERS,,CHECK CUTOFF

10290CRS TF OUTPUT+158,CLR+78

10100 B7 CRS
10130 B7 CRS
10230 B7 CRS
10340 B7 CRS
10360 BNI CRS-12,3400
10380 B7 CRS-12

06910CSFND TFM AMBA+11,0

05660CUST DVLC ,2,43,2,-64,5,CREDIT+2,2,62,2,63,2,04,2,99,5,CSFND

09460CTCD TFM WC+5*20+18,LABCHK,, BEGIN C WITH CARD ALREADY READ

09530CLDSA DSA CTCD-LABCHK+100
09540 TCD CTCD

05660CUST DVLC ,2,43,2,-64,5,CREDIT+2,2,62,2,63,2,04,2,99,5,CSFND

05780 TFM SCAN-1,CUST,, SNEAK BACK IN FOR CUST

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07110CZERU DC 2,0

05150SSUPP C C7FR0,C0L,11, SPACE SUPPRESS, ENTERS HERE
05490RBACK C C7FR0,C0L,11, SUPPRESS BLANKS

05340C1 C OBJ,*-*,, MAIN COMPARE, WITH OVERFLOW

*** UNREFERENCED ***

14110CIT DC L,0

12640K1 A CIT,EDITQ,11
12720K4 A CIT,EDITQ,11
12750 BTM EDIT,CIT
12770 A C2T,CIT
12780 TF CIT,D2ZERO
13050 A CIT,KZ+23,11
13320KN TF CIT,D2ZERO

14120C?T DC L,0

12550K9 S C2T,EDITQ,11
12570K2 A C2T,EDITQ,11
12770 A C2T,CIT
12800K5 A C2T,EDITQ,11
12930 BTM EDIT,C2T
12850 A C3T,C2T
12860 TF C2T,D2ZERO
12940K7 BTM EDIT,C2T
12970K8 BTM EDIT,C2T
12990 A C3T,C2T
13000 TF C2T,D2ZERO
13140 A C2T,KW+23,11
13260KJ TF STOR1,C2T
13280KP TF STOR2,C2T
13300KU TF STOR3,C2T
13330 TF C2T,D2ZERO

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09860C23D1 DC 2,23

09770 C C23D1,TDDE+6,11
09860 C C23D1,TDDE+6,11

14130C3T DC L,0

12680K3 A C3T,EDITQ,11
12850 A C3T,C2T
12880K6 BTM EDIT,C3T
12990 A C3T,C2T
13200KT TF STOR1,C3T
13220KS TF STOR2,C3T
13240KR TF STOR3,C3T
13340 TF C3T,D2ZERO
13600 A C3T,STOR3
13610 BTM EDIT,C3T
13620 CM C3T,0

14140C4T DC L,0

13350 TF C4T,D2ZERO

07050C70B DC 2,70

05170IFNUM C C70B,COL,11, CHECK FOR NUMERICS

05970DBFND TFM ADREG,0

05590DEBIT DVLC ,2,44,2,-45,5,1SC,2,42,2,49,2,63,2,99,5,DBFND

06110DCDSA2DSA -SESW

05950 BTM SETSW,DCDSA2

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06080 BTM SETSW,DCDSA2

02520DCSW DSC 1,0,, DEBIT OR CREDIT LAST FOUND

03430A4TCD TFM WC+13,DCSW
03440 TFM NUAD,DCSW
03490A4DSA DSA A4TCD-DCSW+100
03840A5DSA DSA A5TCD-DCSW+100
06120DSWNLBDSA -DCSW,-OBSW,-CDVSW,-AMTSW
06690 TOM DCSW,0
06730AMDSA DSA -AMTSW,HOSW,-DCSW
070100BDSA DSA DCSW,-OBSW,-AMTSW,-CDVSW
070300BDSA2DSA OBSW,-DCSW,-AMTSW,-CDVSW,-LPSW,-SGSW2

02440DD DSC 8,2,00000*

02380 SF DD+1
02400CFDD CF DD+1
07410 TF DD+6,GETADJ-1
02420 GET DD
03700 WN DD+7,900
10020K71 WN DD+7,900

00480DATTR TR WC, .C,2

*** UNREFERENCED ***

05590DEBIT DVLC ,2,44,2,-45,5,1SC,2,42,2,49,2,63,2,99,5,DBFND

05020 BTM SCAN,DEBIT
05610CREDITDVLC ,2,43,2,-59,5,ASH,2,45,2,44,2,-49,5,DEBIT+2,2,-63
05680DISC DVLC ,2,44,2,-49,5,DEBIT+2,2,62,2,43,2,99,5,DSFND

09080DISAMTTD AMB2+11,LITS-1

09040 BNG DISAMT,AMB2+11

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05680DISC DVLC ,2,44,2,-49,5,DEBIT+2,2,62,2,43,2,99,5,DSFND

05060 BTM SCAN,DISC
 05600ISC DVLC ,2,49,2,-86,5,DISC+9
 05620 DVLC ,5,DISC+9,2,99,5,CRFND

00710DKADJ SF *-1

00720 TF WC+10,DKADJ-1,11
 00730 SM DKADJ-1,5,10
 00740 S WC+10,DKADJ-1,11
 00750 TF WC+13,DKADJ-1,11
 00770 SM DKADJ-1,5,10
 00780 TF NUAD,DKADJ-1,11
 00820 CF DKADJ-1
 00830 AM DKADJ-1,2,10
 00840 B DKADJ-1,,6
 01170GOGOGOBTM DKADJ,++16,,
 01250 BTM DKADJ,++16,,
 01330 BTM DKADJ,++16,,
 01430 BTM DKADJ,++16
 01510 BTM DKADJ,++16,,
 02350 DORG DKADJ,

ESTABLISH PARAMS. UPDATABLE BLOCK
 COMPUTE PARAMS. B.S.,I.S. LABELS
 NOW G.L. LABELS FOR PHASE B
 NOW FOR THE TRANSACTIONS BLOCK
 LEAVE PUTADJ THERE

04720DLMES DAC 32,LABEL DUPLICATES PREVIOUS LABEL*

04680DUPLABBTM ERPRNT,QLMES-1

0935000 A ***,***

08970 TDM DD+1,2
 08990ADD TDM DD+1,1
 09200NUMAMTF DD+11,TFND+11
 09210 A DD+11,99
 09220 TF DD+6,TFNR+11,11
 09230 CM DD+6,L,10

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09240 BH DD
 09330SLOK AM DD+6,***

11340DDAR3 AM EDAR2+6,L,10

*** UNREFERENCED ***

11410DDAR4 BT EDIT,EDAR1+6

*** UNREFERENCED ***

10770DDFL3 AM EDGL2+6,L,10

*** UNREFERENCED ***

10830DDFL4 BT EDIT,EDGL1+6

*** UNREFERENCED ***

DOPHAS *** UNDEFINED ***

01780TRA1 TRA BACK TO DD PHASE A2

03050DPUNCHDCA ,OUTPUT-2

03330 PUT DPUNCH,, IN THE CASE OF MULTIPLE ERRORS
 03410 PUT DPUNCH
 10090 PUT DPUNCH

06240DSFND TDM INCT,0,, DISC

05680DISC DVLC ,2,44,2,-49,5,DEBIT+2,2,62,2,43,2,99,5,DSFND

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06120DSWNLBDSA -DCSW,-OBSW,-CDVSW,-AMTSW

04440 BTM LGCAND,DSWNLB
04480 BTM SETSWS,DSWNLB
05850GOTOF BTM LGCAND,DSWNLB,, GO TO START MESSAGE
06030 BTM LGCAND,DSWNLB
06070SWELL CF DSWNLB
06090 SF DSWNLB

04680DUPLABBTM ERPRNT,DLMES-1

04530 BE DUPLAB

12100D1DSA DSA D1TCD-EDIT+100

12070 TF WC+8,D1DSA-2

11970D1TCD BNF NOPRD,PRSW

12100D1DSA DSA D1TCD-EDIT+100
12110 TCD D1TCD

14260D2DSA DSA D2TCD-BEGND2+100

14220 TF WC+8,D2DSA-2

14190D2TCD TFM WC+18,BEGND2

14260D2DSA DSA D2TCD-BEGND2+100
14270ENDD2 DS ,D2TCD-1
14280 DEND D2TCD

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14150D2ZERODC L,0

12780 TF C1T,D2ZERO
12860 TF C2T,D2ZERO
13000 TF C2T,D2ZERO
13320KN TF C1T,D2ZERO
13330 TF C2T,D2ZERO
13340 TF C3T,D2ZERO
13350 TF C4T,D2ZERO

EA2 *** UNDEFINED ***

01780TRA1 TRA BACK TO DO PHASE A2

11260EDAR1 TF ***,***

11120 TF EDAR1+11,HEDDSA+3*5
11130 TF EDAR1+6,EDAR2+6
11140 SM EDAR1+6,S-2*L,10
11230 AM EDAR1+6,S,10
11240 BT EDIT,EDAR1+11
11310 A EDAR1+6,EDAR2+6,611
11320 AM EDAR1+11,L,10
11330EDAR2 S ***,EDAR1+11,11
11380 S EDAR1+6,EDAR2+6,611
11390 AM EDAR1+11,L,10
11400 S EDAR2+6,EDAR1+11,611
11410DOAR4 BT EDIT,EDAR1+6
11440 A ARTOT4,EDAR1+6,11
11450 AM EDAR1+11,L,10
11470 BNR ARLOOP,EDAR1+11,11

11330EDAR2 S ***,EDAR1+11,11

11110 TF EDAR2+6,HEDDSA+7*5
11130 TF EDAR1+6,EDAR2+6
11280 BT EDIT,EDAR2+6
11300 A ARTOT2,EDAR2+6,11
11310 A EDAR1+6,EDAR2+6,611
11340DOAR3 AM EDAR2+6,L,10

135

11350	BT	EDIT,EDAR2+6
11370	A	ARTOT3,EDAR2+6,11
11380	S	EDAR1+6,EDAR2+6,611
11400	S	EDAR2+6,EDAR1+11,611
11460	AM	EDAR2+6,2*L,10

 09740EDCM CM *--*,0,1011

09630	TF	EDCM+6,EDIT-1
09640	BNF	**20,EDCM+6,11
09680	TD	EDITA-4,EDCM+6,11
09700	SM	EDCM+6,1,10
09710	TD	EDITA-6,EDCM+6,11
09720	SM	EDCM+6,1,10
09790TDED	TD	*--*,EDCM+6,11
09800	SM	EDCM+6,1,10
09810	BNF	EDCM,EDCM+6,11
09810	BNF	EDCM,EDCM+6,11
09820	BD	LSTED,EDCM+6,11
09900	TD	TDED+6,EDCM+6,611

 10710EDGL1 TF *--*,*--*

10680	AM	EDGL1+6,S,10
10690	BT	EDIT,EDGL1+11
10740	A	EDGL1+6,EDGL2+6,611
10750	AM	EDGL1+11,L,10
10760EDGL2	S	*--*,EDGL1+11,11
10800	S	EDGL1+6,EDGL2+6,611
10810	AM	EDGL1+11,L,10
10820	S	EDGL2+6,EDGL1+11,611
10830DUF4	BT	EDIT,EDGL1+6
10860	AM	EDGL1+11,L,10
11720	TF	EDGL1+11,HEDDSA+2*5
11730	TF	EDGL1+6,EDGL2+6
11740	SM	EDGL1+6,S-2*L,10

 10760EDGL2 S *--*,EDGL1+11,11

10720	BT	EDIT,EDGL2+6
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10740	A	EDGL1+6,EDGL2+6,611
10770DUF3	AM	EDGL2+6,L,10
10780	BT	EDIT,EDGL2+6
10800	S	EDGL1+6,EDGL2+6,611
10820	S	EDGL2+6,EDGL1+11,611
10870	AM	EDGL2+6,2*L,10
11710	TF	EDGL2+6,HEDDSA+6*5
11730	TF	EDGL1+6,EDGL2+6

 12310EDIS TF EDITQ,*--*

12220	TF	EDIS+11,HEDDSA+5
12610ADV	AM	EDIS+11,5,10

 09620EDIT TF EDITA,EDITF,, CHANGE Q TO EDITE LATER

09630	TF	EDCM+6,EDIT-1
10690	BT	EDIT,EDGL1+11
10720	BT	EDIT,EDGL2+6
10780	BT	EDIT,EDGL2+6
10830DUF4	BT	EDIT,EDGL1+6
11240	BT	EDIT,EDAR1+11
11280	BT	EDIT,EDAR2+6
11350	BT	EDIT,EDAR2+6
11410DCAR4	BT	EDIT,EDAR1+6
11520	BTM	EDIT,ARTOT1
11540	BTM	EDIT,ARTOT2
11560	BTM	EDIT,ARTOT3
11580	BTM	EDIT,ARTOT4
12050	TFM	NUAD,EDIT
12060	TFM	WC+13,EDIT
1210001DSA	DSA	DITCD-EDIT+100
12210	TFM	EDIT+11,EDITe
12580	BTM	EDIT,*--*
12650	BT	EDIT,EDITQ
12690	BT	EDIT,EDITQ
12730	BT	EDIT,EDITQ
12750	BTM	EDIT,CIT
12810	BT	EDIT,EDITQ
12830	BTM	EDIT,C2T
12880K6	BTM	EDIT,C3T
12940K7	BTM	EDIT,C2T

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12970K8 BTM EDIT,C2T
 13030 BTM EDIT,*-*
 13120 BTM EDIT,*-*
 13610 BTM EDIT,C3T

 09950EDITA DS 30

09620EDIT TF EDITA,EDITF,, CHANGE Q TO EDITE LATER
 09660 TF EDITA,CLR+2
 09670 CF EDITA-3
 09680 TD EDITA-4,EDCM+6,11
 09690 CF EDITA-4
 09710 TD EDITA-6,EDCM+6,11
 09730 TFM TOED+6,EDITA-8
 10700 TF FLD2,EDITA,6
 10730 TF FLD3,EDITA,6
 10790 TF FLD4,EDITA,6
 10840 TF FLD5,EDITA,6
 11250 TF FLD2,EDITA,6
 11290 TF FLD3,EDITA,6
 11360 TF FLD4,EDITA,6
 11420 TF FLD5,EDITA,6
 11530 TF FLD2,EDITA,6
 11550 TF FLD3,EDITA,6
 11570 TF FLD4,EDITA,6
 11590 TF FLD5,EDITA,6
 12600 TF FLD3,EDITA,6
 12660 TF FLD2,EDITA,6
 12700 TF FLD4,EDITA,6
 12740 TF FLD2,EDITA,6
 12760 TF FLD3,EDITA,6
 12820 TF FLD3,EDITA,6
 12840 TF FLD4,EDITA,6
 12890 TF FLD4,EDITA,6
 12950 TF FLD3,EDITA,6
 12980 TF FLD4,EDITA,6
 13040 TF FLD2,EDITA,6
 13130 TF FLD3,EDITA,6
 13640 A GOOF,EDITA
 13880 TF TROX-4,EDITA

 09940EDITE DSAC 15,77,777,777.77- ,,

12210 TFM EDIT+11,EDITE

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 09930EDITF DSAC 15,77,777,777.77CR,,

09620EDIT TF EDITA,EDITF,, CHANGE Q TO EDITE LATER

 12590EDITQ DS ,*

12310EDIS TF EDITQ,*-*
 12550K9 S C2T,EDITQ,11
 12570K2 A C2T,EDITQ,11
 12640K1 A C1T,EDITQ,11
 12650 BT EDIT,EDITQ
 12680K3 A C3T,EDITQ,11
 12690 BT EDIT,EDITQ
 12720K4 A C1T,EDITQ,11
 12730 BT EDIT,EDITQ
 12800K5 A C2T,EDITQ,11
 12910 BT EDIT,EDITQ

 01830ENDAI DS **, PROBLEM CAN CLOBBER ANYWHERE BELOW HERE

01110CHOVI.PCM HEDDSB,ENDAI

 07380ENDB DS ,TCCB-1

01690 CM WC+3*20+13,ENDH

 10500ENDBALDSAC 11,ENDING BAL ,,

11060 TF FLD5,ENDBAL,6
 11910 TF FLD5,ENDBAL,6

 09550ENDC DS ,BEGINC-1

01750 CM WC+5*20+13,ENDC

139

12120ENDD1 DS ,GLOUT-1
01720 CM WC+4*20+13,ENDD1

14270ENDD2 DS ,D2TCD-1
01660 CM WC+2*20+13,ENDD2

07080ENDRT DSC 6, '
04590 INLZETR INSAD,ENDRT,6
05890 TR INSAD,ENDRT,6

05290ENDWDS DS ,INPUT+142
05250 CM COL,ENDWDS,, IF END OF CARD
05520 CM COL,ENDWDS,, IF END OF CARD

03310ERPRNTBD OMES,PSW,, STANDARD ROUTINE TO OUTPUT DIAGNOSTIC
03210 TEM ERPRNT-1,RMES-1
03220 B7 ERPRNT
03360 TR OUTPUT+7,ERPRNT-1,11
03610 TEM ERPRNT-1,RMES-1
03620 B7 ERPRNT
04460 BTM ERPRNT,BADLAB-1,, FOR BEGINNING A NEW ROUTINE
04680DUPLABBTM ERPRNT,DLMES-1
05870 BTM ERPRNT,BADLAB-1
06050 BTM ERPRNT,BADDC-1
06170 BTM ERPRNT,BADRP-1
06520OVERB BTM ERPRNT,OVBMS-1
06530 BTM ERPRNT,OVBMS-1
06540 BTM ERPRNT,OUTPUT+237,,BLANK CARD
06640 BTM ERPRNT,AMMS-1
06880 BTM ERPRNT,BAD ACT-1

06960 BTM ERPRNT,OBMS-1
07260 BTM ERPRNT,TITSAV-1
07780 BTM ERPRNT,NOCMS-1
08580 BTM ERPRNT,TWOMES-1
08730 BTM ERPRNT,NLBMS-1
09290 BTM ERPRNT,SLMES-1

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00310EWC DSB 20,11,, TRANSFER DDA AREA
00320WC DS ,EWC-19

EXIT *** UNDEFINED ***
01040 CALL EXIT
01090 CALL EXIT
06550 CALL EXIT
12530 CALL EXIT

04590FINLZETR INSAD,ENDRT,6
04700 B7 FINLZE

1040FLD1 DSA OUTPUT+6
10620 TF TFLABD+6,FLD1
10980 TF **30,FLD1
11150ARLOOPTF TFARLB+6,FLD1
11490 TF **30,FLD1
11850 TF **30,FLD1
11980 TFM FLD1,OUTPUT+16
12230 TF TFM02+11,FLD1

10410FLD2 DSA OUTPUT+96
10700 TF FLD2,EDITA,6
11030 TF FLD2,REGBAL,6

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11250	TF	FLD2,EDITA,6
11530	TF	FLD2,EDITA,6
11880	TF	FLD2,BEGBAL,6
11990	TFM	FLD2,OUTPUT+116
12660	TF	FLD2,EDITA,6
12740	TF	FLD2,EDITA,6
13040	TF	FLD2,EDITA,6

10420FLD3 DSA OUTPUT+118

10730	TF	FLD3,EDITA,6
11040	TF	FLD3,TOTD8,6
11290	TF	FLD3,EDITA,6
11550	TF	FLD3,EDITA,6
11890	TF	FLD3,TOTD8,6
12000	TFM	FLD3,OUTPUT+146
12600	TF	FLD3,EDITA,6
12760	TF	FLD3,EDITA,6
12820	TF	FLD3,EDITA,6
12950	TF	FLD3,EDITA,6
13130	TF	FLD3,EDITA,6

10430FLD4 DSA OUTPUT+138

10790	TF	FLD4,EDITA,6
11050	TF	FLD4,TOTCR,6
11360	TF	FLD4,EDITA,6
11570	TF	FLD4,EDITA,6
11900	TF	FLD4,TOTCR,6
12010	TFM	FLD4,OUTPUT+176
12700	TF	FLD4,EDITA,6
12840	TF	FLD4,EDITA,6
12890	TF	FLD4,EDITA,6
12900	TF	**30,FLD4
12980	TF	FLD4,EDITA,6
13500KJ	TF	FLD4,ASTS-66+22,6
13510	TFM	FLD4,0,610
13540KK	TF	FLD4,ASTS-66+22,6
13550	TFM	FLD4,0,610

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10440FLD5 DSA OUTPUT+158

10840	TF	FLD5,EDITA,6
11060	TF	FLD5,ENDBAL,6
11420	TF	FLD5,EDITA,6
11590	TF	FLD5,EDITA,6
11910	TF	FLD5,ENDBAL,6
12020	TFM	FLD5,OUTPUT+206

08040FLFX DSAC 3,777

07890N0GO	TD	FLFX,PHBERS
07900	TD	FLFX-2,PHBERS-1
07910	TD	FLFX-4,PHBERS-2

14030FLFY DSAC 4, 777

13890	TD	FLFY,PHBERS
13900	TD	FLFY-2,PHBERS-1
13910	TD	FLFY-4,PHBERS-2

08060FLF2 DSAC 3,777

07920	TD	FLF2,PHCERS
07930	TD	FLF2-2,PHCERS-1
07940	TD	FLF2-4,PHCERS-2

14040FLY DSAC 22, LANGUAGE ERRORS 777

13920	TD	FLY,PHCERS
13930	TD	FLY-2,PHCERS-1
13940	TD	FLY-4,PHCERS-2

08140FORTHCTD CNT..NPIIT+20

07470	RE	FORTHCTD
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02360GETADJBNF CFDC,+1,, PERMANENT DISK INPUT ROUTINE

02370	CF	GETADJ-1
02410	TF	UD+6,GETADJ-1
04170	BTM	GETADJ,WC+6*20
04240	BTM	GETADJ,WC+7*20,711,RE-CALL PHASE B
05960	BTM	GETADJ,WC+8*20,711,LINK TO PHASE C
07270	BTM	GETADJ,WC+3*20,711
07880	BTM	GETADJ,WC+9*20,711, LINK TO D1
08010	BTM	GETADJ,WC+6*20
08020	BTM	GETADJ,WC+7*20,711,LINK TO B
09440	BTM	GETADJ,WC+20
09450	BTM	GETADJ,WC+5*20,711
11690	BTM	GETADJ,WC+10*20,711
11940	BTM	GETADJ,WC+4*20,711
12200	BTM	GETADJ,WC+2*20
13990	BTM	GETADJ,WC+6*20
14000	BTM	GETADJ,WC+7*20,711, LINK TO B
14060	BTM	GETADJ,WC+6*20
14070	BTM	GETADJ,WC+7*20,711

02600GETA2 GET CARD

02690	BT	GETA2
02820	YCD	GETA2
02880	DORG	GETA2

02180GETND RCTY ,,2

02110	WATP	BD	GETND,MLPRSW,,	DIGIT IN POS. 2 OF SECTOR FOR YES
02220	BC4		GETND	
02230	SF		GETND+2	
02240	TF		PRIN+25,GETND+5	

10650GLRNF BNF *-24,*-*

10580GLLOOPTF GLRNF+11,*-*

10590	TF	OUTPUT+6,GLRNF+11,11
10600	AM	GLRNF+11,1,10
10610	SF	GLRNF+11,,6
10630	AM	GLRNF+11,2,10
10670	TF	LABDTF *-*,GLRNF+11,11

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11960GLEDG DSAC 33, GENERAL LEDGER ,,

11790 BTM HEDLIN,GLEDG

10580GLLOOPTF GLRNF+11,*-*

10880	AM	GLOOP+11,5,10
10890	BNR	GLOOP,GLOOP+11,11
10890	BNR	GLOOP,GLOOP+11,11
11700	GLOUT	TF GLOOP+11,HEDDSA+5*5
12030	NOPRD	TFM WC+4*20+18,GLOOP

11700GLOUT TF GLOOP+11,HEDDSA+5*5

12040	TFM	WC+18,GLOUT
12120	ENDD1	DS ,GLOUT-1

01170GOGOGOBTM DKADJ,+16,, ESTABLISH PARAMS. UPDATABLE BLOCK

01120 BH GOGOGO

14080G00F DSAC 41,YOU G00FED, OUT OF BALANCE BY ,,

13640	A	G00F,EDITA
13650	BTM	HEDLIN,G00F
13660	TF	G00F,ASTS
13670	TF	G00F-16,ASTS
13680	BTM	HEDLIN,G00F
13700	TF	G00F,ASTS
13810	TF	G00F-16,ASTS

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13820 BTM HEDLIN,GOOF

05850GOTOF BTM LGCAND,DSWNLB,, GO TO START MESSAGE

04020 BE GOTOF

08770HAVIT AM AGOGO+35,1,10

08670 BE HAVIT

01820HDSA DSA HEDCR

01180 DSA HEDDSB+4*5,HEDDSB+3*5,HDSA
01340 DSA HEDDSB+3*5,HEDDSB+2*5,HDSA

00190HEDDR DS ,19600, CORE ADDRESS STARTING PROBLEM HEADER

00260HEDDSADS ,HEDDR+4
01820HDSA DSA HEDDR

00260HEDDSADS ,HEDDR+4

00270HEDDSBDS ,HEDDSA+10*5
01200 BTM VKADJ,HEDDSA+5,, RELOCATE B.S.,I.S. LABELS TABLE
01280 A HEDDSA+6*5,SM7+11,, WHOOPS -- UPDATE HEADER DSA-S
01290 A HEDDSA+7*5,SM7+11,, FOR UPDATABLE BLOCK
01310 A HEDDSA,ADJF,, FOR PHASE D2 USE
01320 A HEDDSA+5,ADJF
01350 BTM VKADJ,HEDDSA+5*5
01360 TF HEDDSB,HEDDSA+5*5,, USE HEDDSB IN THE HEADER
01420 BTM VKADJ,HEDDSA+5*5,, UNRELOCATE VECTORS
01450 BTM VKADJ,HEDDSA+5*5
01460 A HEDDSA+2*5,ADJF
01470 A HEDDSA+3*5,ADJF,, UPDATE HEADER DSA-S
01480 A HEDDSA+4*5,ADJF,, FOR PHASE D1 USE
01490 A HEDDSA+5*5,ADJF

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01530 TF **23,HEDDSA+8*5,, TRANSACTIONS BLOCK REQUIRES
01620 A HEDDSA+8*5,ADJF
06800 TF AMBA+11,HEDDSA+6*5
07720 C LPBD+21,HEDDSA+9*5
08230 TF AGOGO+11,HEDDSA+8*5
08440 CM HEDDSA+9*5,0,9
09410REGINCTF TOSWAD,HEDDSA+6*5
09430 S TOSWAD,HEDDSA+9*5
11090 TF ARBNF+11,HEDDSA+4*5
11110 TF EDAR2+6,HEDDSA+7*5
11120 TF EDAR1+11,HEDDSA+3*5
11700GLDUT TF GLLDUT+11,HEDDSA+5*5
11710 TF EDGL2+6,HEDDSA+6*5
11720 TF EDGL1+11,HEDDSA+2*5
12220 TF EDIS+11,HEDDSA+5
12250 TF ISBNF+11,HEDDSA

00270HEDDSBDS ,HEDDSA+10*5

00280LDSA DS ,HEDDSB+5*5+2
01110CHOVLPCM HEDDSB,ENDA1
01180 DSA HEDDSB+4*5,HEDDSB+3*5,HDSA
01180 DSA HEDDSB+4*5,HEDDSB+3*5,HDSA
01270 DSA HEDDSB+5,HEDDSB,WC+20+13
01270 DSA HEDDSB+5,HEDDSB,WC+20+13
01340 DSA HEDDSB+3*5,HEDDSB+2*5,HDSA
01340 DSA HEDDSB+3*5,HEDDSB+2*5,HDSA
01360 TF HEDDSB,HEDDSA+5*5,, USE HEDDSB IN THE HEADER
01370 A HEDDSB,ADJF,, TO SAVE ADJUSTED START OF
01440 DSA HEDDSB+3*5,HEDDSB+5,WC+20+13
01440 DSA HEDDSB+3*5,HEDDSB+5,WC+20+13
01520 DSA HEDDSB+5*5,HEDDSB+4*5,WC+20+13
01520 DSA HEDDSB+5*5,HEDDSB+4*5,WC+20+13
06790NNNN TF TFLB+11,HEDDSB

10070HEDLINBD K61,PRSW,7

10080 TF OUTPUT+112,HEDLIN-1,11
10110K61 TF OUTPUT+138,HEDLIN-1,11
10910 BTM HEDLIN,ASTS
10920 BT HEDLIN,TITLES
10940 BTM HEDLIN,ARTB

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10960	BTM	HEDLIN,ASTS
11620	BTM	HEDLIN,ASTS
11630	BT	HEDLIN,TITLES
11650	BTM	HEDLIN,INCSTA
11670	BT	HEDLIN,TITLES+2*5
11680	BTM	HEDLIN,ASTS
11760	BTM	HEDLIN,ASTS
11770	BT	HEDLIN,TITLES
11790	BTM	HEDLIN,GLEDG
11810	BT	HEDLIN,TITLES+5
11820	BTM	HEDLIN,ASTS
13380	BTM	HEDLIN,ASTS
13390	BT	HEDLIN,TITLES
13410	BTM	HEDLIN,BALSH
13430	BT	HEDLIN,TITLES+3*5
13440	BTM	HEDLIN,ASTS
13570	AM	HEDLIN+18,8,10
13650	BTM	HEDLIN,GOOF
13680	BTM	HEDLIN,GOOF
13700BINGO	BTM	HEDLIN,BING
13720	BTM	HEDLIN,BING
13790OUTNOT	BTM	HEDLIN,NOTE
13820	BTM	HEDLIN,GOOF

09400HEND DSAC 4,END ,,

*** UNREFERENCED ***

07060HOLAB DS 8

04300	TF	HOLAB,CLR+6	
04310	TFM	AMR+6,HOLAB-8	
04410	C	HOLAB,LSMNEM,,	IS LABEL SAME AS PREVIOUS
04520CLAB	C	*-*,HOLAB	
04580	TF	LSMNEM,HOLAB	

06720HOSW DS ,UPCOL6+10

06610	TD	HOSW,TRSW
06730AMDSA	DSA	-AMTSW,HOSW,-DCSW

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05440IFEND CM SCAN-1,99,610, IF END OF CONTROL WORD

05360	BE	IFEND,,, AH=SD
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05170IFNUM C C70B,COL,11, CHECK FOR NUMFRICS

*** UNREFERENCED ***

10510INCSTADSAC 33, INCOME STATEMENT ,,

11650	BTM	HEDLIN,INCSTA
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02450INPUT DAC 40, ,, PERMANENT

02610	C	INPUT+8,TITLA2
02630	C	INPUT+8,ADMNA2
02730CA2	C	CCA2,INPUT+160,7
03070READ	TD	INPUT+1,INPUT+160,,RM TO EVEN LOCATION
03070READ	TD	INPUT+1,INPUT+160,,RM TO EVEN LOCATION
03070	BNR	RMCHK,INPUT+1,, IF CARD ACTUALLY READ
03170	FR	OUTPUT-1,INPUT-1,, NO RMS ALLOWED ON CARD
03240	TFM	**35,INPUT-2
03520	FR	OUTPUT+39,INPUT-1
03530	CM	INPUT+2,6349,8
03640	TFM	RMSCAN+23,INPUT-2
03770	TR	OUTPUT+39,INPUT-1
03970LARCHKC	C	TITL8,INPUT+8
03990	C	ADMIN,INPUT+8
04010	C	XREFB,INPUT+8
04030NOCOL7C	C	CLR+6,INPUT+20,, IS MNEMONIC FIELD BLANK
04190CCC	C	CLR,INPUT+160,7
04290ISLAR	TFM	ACLAB+11,INPUT+14,,COLLECT + LEFT-JUSTIFYING LABEL
04340	CM	ACLAB+11,INPUT+22
04650CONT	TFM	COL,INPUT+22
05290ENDWSDS	C	,INPUT+142
07220	WATY	INPUT,,, FIRST LINE OF LOG
07230	TR	TITSAV-1,INPUT-1

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07460	C	XREFC, INPUT+6	
07480	C	TITLC, INPUT+8	
07500	C	ADMINC, INPUT+8	
07600TCMC	C	CLR, INPUT+160,7	
08140FURTHCTD		CNT, INPUT+20	
08150	TD	CNT-1, INPUT+18	
08160	TD	CNT-2, INPUT+16	
08210	TFM	CCOL, INPUT+22,,	SET POINTER ON XREF
08220	TFM	CMC+11, INPUT+22	
08500QCEND CM		CCOL, INPUT+142,,	IF CARD OVER

06470INSAD DS ,*-5

04590FINLZETR		INSAD, ENDRT, 6	
04610	AM	INSAD, 6, 10	
04620	C	INSAD, TRLAB+6	
04640	TF	AD, INSAD	
05890	TR	INSAD, ENDRT, 6	
05900	AM	INSAD, 6, 10	
05910	C	INSAD, TRLAB+6	
06480	AM	INSAD, 6, 10	
06490	TF	INSAD, INST+6, 6	
06500	C	INSAD, TRLAB+6	

07130INST DSC 1,0,, ASSEMBLY AREA TO PUT INTO THE

06220CAFND TDM		INST, 0,,	CASH
06240DSFND TDM		INST, 0,,	DISC
06270VCFND TDM		INST, 0,,	VOUC FOUND
06430SNEG SF		INST	
06460	TD	AREA, INST, 2	
06490	TF	INSAD, INST+6, 6	
06770AMTN TD		INST, COL, 11,	AMT N FOUND

12290ISBNF BNF *-12, *-*

12250	TF	ISBNF+11, HEDDSA	
12260	SM	ISBNF+11, 2, 10	
12270ISLOOPAM		ISBNF+11, 3, 10	

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12280	AM	ISBNF+11, 2, 10	
12320	TF	TFLBIS+11, ISBNF+11	
12350	S	MMIS+11, ISBNF+11, 11	
12360	AM	ISBNF+11, 2, 10	
12380	A	TFLBIS+6, ISBNF+11, 11	

12440ISBTABDSA K9, K8, K7, K6, K5, K4, K3, K2, K1, K0

12410	TFM	ISB7+6, ISBTAB, 711	
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12430ISB7 B7 *-*

12410	TFM	ISB7+6, ISBTAB, 711	
12420	S	ISB7+6, 99	

05600ISC DVLC ,2,49,2,-86,5,DISC+9

05590DEBIT DVLC		,2,44,2,-45,5,ISC,2,42,2,49,2,63,2,99,5, DBFND	
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04290ISLAB TFM ACLAB+11, INPUT+14,, COLLECT + LEFT-JUSTIFYING LABEL

04040	BNE	ISLAB	
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12270ISLOOPAM ISBNF+11, 3, 10

12630	B7	ISLOOP	
13210	B7	ISLOOP	
13230	B7	ISLOOP	
13250	B7	ISLOOP	
13270	B7	ISLOOP	
13290	B7	ISLOOP	
13310	B7	ISLOOP	
13360	B7	ISLOOP	
13530	B7	ISLOOP	

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12510KBAD RCTY

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD
12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD

12540KBADMSDAC 37,BAD OUTPUT CODE IN I.S., B.S. LABELS'

12520 WATY KBADMS

13500KJ TF FLD4,ASTS-66+22,6

12460 DSA KR,KQ,KP,KO,KN,KM,KL,KK,KJ

13540KK TF FLD4,ASTS-66+22,6

12460 DSA KR,KQ,KP,KO,KN,KM,KL,KK,KJ

13460KL BT TITLO,TITLO-1

12460 DSA KR,KQ,KP,KO,KN,KM,KL,KK,KJ

13370KM BT TITLO,TITLO-1

12460 DSA KR,KQ,KP,KO,KN,KM,KL,KK,KJ

13320KN TF CIT,D2ZERO

12460 DSA KR,KQ,KP,KO,KN,KM,KL,KK,KJ
13450 B7 KN
13480 B7 KN

13300KO TF STOR3,C2T

12460 DSA KR,KQ,KP,KO,KN,KM,KL,KK,KJ

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13280KP TF STOR2,C2T

12460 DSA KR,KQ,KP,KO,KN,KM,KL,KK,KJ

13260KC TF STOR1,C2T

12460 DSA KR,KO,KP,KO,KN,KM,KL,KK,KJ

13240KR TF STOR3,C3T

12460 DSA KR,KO,KP,KO,KN,KM,KL,KK,KJ

13220KS TF STOP2,C3T

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD

13200KT TF STOR1,C3T

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD

13180KU TFM KW+23,STOR3

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD

13160KV TFM KW+23,STOR2

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD

13110KW TFM **23,STOR1

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD

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13140 A C2T,KW+23,11
13160KV TFM KW+23,STOR2
13170 B7 KW+12
13180KU TFM KW+23,STOR3
13190 H7 KW+12

13090KX TFM KZ+23,STOR3

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD

13070KY TFM KZ+23,STOR2

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD

13020KZ TFM **23,STOR1

12450 DSA KZ,KY,KX,KW,KV,KU,KT,KS,KBAD,KBAD
13050 A C1T,KZ+23,11
13070KY TFM KZ+23,STOR2
13080 B7 KZ+12
13090KX TFM KZ+23,STOR3
13100 B7 KZ+12

12620K0 BT OUTLIN,OUTLIN-1

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0
12930 B7 K0
12960 B7 K0
13010 B7 K0
13060 B7 K0
13150 B7 K0

12640K1 A C1T,EDITQ,11

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

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12570K2 A C2T,EDITQ,11

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

12680K3 A C3T,EDITQ,11

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

12720K4 A C1T,EDITQ,11

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

10350K41 PUT PRINT

10320OUTLINRD K41,PRSW

12800K5 A C2T,EDITQ,11

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

10240K51 TR OUTPUT+39,TITSAV-1

10140TITLO BD K51,PRSW

12880K6 BTM EDIT,C3T

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

10110K61 TF OUTPUT+138,HEDLIN-1,11

10070HEDLINRD K61,PRSW,7

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13580 AM K61+6,8,10

12940K7 BTM EDIT,C2T

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

10020K71 WN DD+7,900

09970BLLIN BD K71,PRSW
10040 RP K71

12970K8 BTM EDIT,C2T

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

12550K9 S C2T,EDITQ,11

12440ISBTABDSA K9,K8,K7,K6,K5,K4,K3,K2,K1,K0

00170L DS ,7, LENGTH OF WISAL FIELD

00240R	DS	,3*L,	LENGTH OF A LEDGER ACCOUNT IN CONSTANT BLOCK
00250S	DS	,3*L,	LENGTH OF A LEDGER ACCOUNT IN UPDATABLE BLOCK
01000	CM	LDSA,L,10	
05990CRFND	TFM	ADREG,L	
09150AMB2	MM	**9,L*100,710	
09230	CM	DD+6,L,10	
09420	SM	TOSWAD,L,10	
10520ARTOT1DC		L,0	
10530ARTOT2DC		L,0	
10540ARTOT3DC		L,0	
10550ARTOT4DC		L,0	
10750	AM	EDGL1+11,L,10	
10770DDFL3	AM	EDGL2+6,L,10	
10810	AM	EDGL1+11,L,10	
10860	AM	EDGL1+11,L,10	

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10870	AM	EDGL2+6,2*L,10	
11140	SM	EDAR1+6,S-2*L,10	
11320	AM	EDAR1+11,L,10	
11340DUAR3	AM	EDAR2+6,L,10	
11390	AM	EDAR1+11,L,10	
11450	AM	EDAR1+11,L,10	
11460	AM	EDAR2+6,2*L,10	
11740	SM	EDGL1+6,S-2*L,10	
14110C1T	DC	L,0	
14120C2T	DC	L,0	
14130C3T	DC	L,0	
14140C4T	DC	L,0	
14150D2ZERDDC		L,0	
14160STOR1	DC	L,0	
14170STOR2	DC	L,0	
14180STOR3	DC	L,0	

03970LABCHKC TITLR,INPUT+8

03190	B7	LARCHK	
03590	B7	LABCHK	
07450	DORG	LABCHK	
09460CTCD	TFM	WC+5*20+18,LABCHK,,	BEGIN C WITH CARD ALREADY READ
09480	TFM	WC+13,LABCHK	
09490	TFM	NUAD,LABCHK	
09530CLDSA	DSA	CTCD-LABCHK+100	
09610	DORG	LABCHK	

04490LASWOKTF CLAB+6,TRLAB+6

04450 BNF LASWOK,TRSW,, NOW TEST IF STATUS SWS ARE ALL IN ORDER

07360LBDSA DSA TCDB-LSMNEM+107

07330 TF WC+8,LBDSA-2

03030LCSW DSC 1,0

07660NUIC2 TDM LCSW,1,11

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07970BDNN BD MONCAL,LCSW
13980 BD MONCAL,LCSW,, THIS MUST BE SET SOMEWHERE YET

00280LDSA DS ,HEDDSB+5*5+2

00290TITLESUS ,LDSA+5
01000 CM LDSA,L,10

04770LGCANDTDM TRSN,0,, RESET OUTPUT SW TO OK

04440 BTM LGCAND,DSWNLB
04790 TF BDL+11,LGCAND-1,11,PULL IN INPUT SW ADDRESS
04860 AM LGCAND-1,5,10, THAT SW WAS OK
04870 BNR LGCAND+12,LGCAND-1,11, BACK FOR ANOTHER
04870 BNR LGCAND+12,LGCAND-1,11, BACK FOR ANOTHER
05850GDT0F BTM LGCAND,DSWNLB,, GO TO START MESSAGE
06030 BTM LGCAND,DSWNLB
06600 BTM LGCAND,AMDSA2
06620 BTM LGCAND,AMDSA
06940 BTM LGCAND,OBDSA

09060LITS DS ,*

08830 TF LITS,TFNO+11,11
09080DISAMTTD AMB2+11,LITS-1
09170 TD AMB2+11,LITS-2

00180LNTH DS ,3000, CORE ALLOTTED FOR STUDENT PROGRAMS, LOG ENTRIES

03920AREA DSS LNTH

LOAD *** UNDEFINED ***

00980PRIN CALL LOAD,361,, **CHANGE IF PROBLEM NOT DIM NO. 361**

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002C0LOWESTDS ,2302, LOWEST CORE USED -- BEGINNING DORG -- DDA-S

00300 DORG LOWEST

05650LPARENDVLC ,2,24,2,99,5,LPFND

05040 BTM SCAN,LPAREN

077C0LPBD AM CNTBD+11,1,10

07720 C LPBD+21,HEDDSA+9*5
07740CNTBD BD LPBD,**-
07750 TD NOCMES+76,LPBD+21
07760 TD NOCMES+74,LPBD+20
07770 TD NOCMES+72,LPBD+19
07800 B7 LPBD

05750LPFND TD SGW2,SGSW,, BOUNCING OUT OF SCAN WITH (FOUND

05650LPARENDVLC ,2,24,2,99,5,LPFND

02560LPSW DSC L,0,, PARENTHESES NOT CLOSED

05770 TDM LPSW,1,11
06130RPDSA DSA -LPSW,-SGSW,-SGSW2
06150RPFND BNF UPCOL,LPSW
070300BDSA2DSA OBSW,-DCSW,-AMTSW,-CDVSW,-LPSW,-SGSW2

04990LSCANSTF CM42+11,COL,, SAVE POINTER

05180 BH LSCANS,,, NO, GO RUN THE ALPHA GAUNTLET AGAIN

03930LSMNEMDSAC 4,,,,,

04050 CM LSMNEM-4,2323,8, YES, WAS THERE ANY PREV. LABEL

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04410 C HOLAB,LSMNEM,, IS LABEL SAME AS PREVIOUS
 04570TRLAB TR LSMNEM+7,LSMNEM+21,2
 04570TRLAB TR LSMNEM+7,LSMNEM+21,2
 04580 TF LSMNEM,HOLAB
 07290 TFM WC+13,LSMNEM-7
 07300 TFM NUAD,LSMNEM-7
 07360LBDSA DSA TCDB-LSMNEM+107

 09870LSTED SM TDEC+6,2,10

09820 BD LSTED,EDCM+6,11

 05710MINUS DVLC ,2,54,2,49,2,55,2,64,2,62,2,99,5,MNFND

05090 BTM SCAN,MINUS
 05640AMT DVLC ,2,41,2,54,2,-63,5,MINUS+2,2,99,5,AMFND

 00380MLPRSWDSC 1,0,, 1 IF MULTIPLE PROBLEMS

02110WHATP BD GETNO,MLPRSW,, DIGIT IN POS. 2 OF SECTOR FOR YES

 12400MMIS MM **9,500,710

12340 TFM MMIS+11,79,10
 12350 S MMIS+11,ISBNF+11,11

 05830MNFND TDM SGSW,1,11,, MINUS UR - FOUND 1 FOR MINUS, FLAGGED

05710MINUS DVLC ,2,54,2,49,2,55,2,64,2,62,2,99,5,MNFND
 05730SMINUSDVLC ,2,20,2,99,5,MNFND

 00210MCNCALDS ,796, THIS SHOULD NOT BE VARIED TOO INDEPENDENTLY

02140 DSA MONCAL

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07970BDNN BD MONCAL,LCSW
 07980 BNC1 MONCAL,,, **** SWITCH 1 ON FOR BATCH RJN ***
 13970 BNC1 MONCAL
 13980 BD MONCAL,LCSW,, THIS MUST BE SET SOMEWHERE YET

 14010MONNS DAC 17,BAL. SHEET ERROR ,,

13960 WATY MONNS

 09030MORYETBNR SOMANI,AMR2+11

09010 BNR MORYET,TBNR+11,11

 08760NLBMESDAC 47,NO PROG FOUND FOR THIS TRAN TYPE, TRANS NO 777'

08700 TD NLBMES+90,CNT
 08710 TD NLBMES+88,CNT-1
 08720 TD NLBMES+86,CNT-2
 08730 BTM ERPRNT,NLBMES-1

 06790NNNN TF TFL*+11,HEDDSB

05220 BNL NNNN,,, YES, GO TO PROCESS

 09120NOAMTSDS ,*

08810TFND TF NOAMTS,*-*,, PROCESS TRANSACTION HEADER
 08840 BNF NSUBL,NOAMTS
 08850 CF NOAMTS

 07810NOCMESDAC 40,NO CODE PROVIDED FOR TRANSACTION NO 777',, A LA MCCOY

07750 TD NOCMES+76,LPBD+21
 07760 TD NOCMES+74,LPBD+20

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07770 TD NOCMES+72,LPBD+19
07780 BTM ERPRNT,NOCMES-1

04030NOCOL7C CLR+6,INPUT+20,, IS MNEMONIC FIELD BLANK

*** UNREFERENCED ***

05510NOEND AM COL.2,10, UP ON CARD

05450 BNE NOEND,, NO, GO TO UP CARD COLUMN
05790 B7 NOEND

07890NUGO TD FLFX,PHBERS

07850 BL NOGO
07870 BL NOGO

08030NOMMS DAC 23,ERROR CUT-OFF -- ,,

07960 WATY NOMMS

12030NOPRD TFM WC+4*20+18,GLLOOP

11970DITCD BNF NOPRD,PRSW

08540NOSKIPBNF AGOGO-12,TDMTR+11,11

08480 BNE NOSKIP

14090NOTE DSAC 41, BUT NOTE PROGRAMMING ERRORS ABOVE ,,

137900UTNOTBTM HEDLIN,NOTE

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07820NCTUCHPUT TEMPC,,, ADMIN RUN, WRITE BACK UPDATABLES

07680 BE NOTUCH

08890NSUBL TFM SUBAD,0

08840 BNF NSUBL,NOAMTS

02800NTITA2DAC 36,TITLE OR ADMIN CARD MUST BEGIN INPUT

02660 WATY NTITA2

08120NTITC DAC 19,TITLE CARD MISSING',,ACCORDING TO MCCOY

07550 WATY NTITC

00460NUAD DS ,*

00780 TF NUAD,DKADJ-1,11
00790 S NUAD-2,WC+8
00800 TF ADJF,NUAD
03440 TFM NUAD,DCSW
07300 TFM NUAD,LSMNEM-7
09490 TFM NUAD,LABCHK
12050 TFM NUAD,EDIT
14210 TFM NUAD,BEGND2

08270NULAB AM CMC+11,8,10

08510 BL NULAB

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COMPUTER TECHNOLOGY.

09200NUMAMTTF DD+11,TFND+11
09160 BNZ NUMAMT

09360NXT AM TBNR+11,1,10
09140 B7 NXT
09310 B7 NXT

070100BDSA DSA DCSW,-OBSW,-AMTSW,-CDVSW
06940 BTM LGCAND,OBDSA

070300BDSA2DSA OBSW,-DCSW,-AMTSW,-CDVSW,-LPSW,-SGSW2
06990 BTM SETSWS,OBDSA2

071000BJ DS 2
05320SCAN TF OBJ,**-1,11, BRING IN CHAR DUE TO NECESSITY TO CF
05340C1 C OBJ,**,, MAIN COMPARE, WITH OVERFLOW
05370 BNF BB2,OBJ,, COLUMN VS. CONTROL UNEQUAL,OUT IF NONAMBIG
05380 CF OBJ,, CLEAR AMBIG FLAG
05400 C OBJ,COL,11, AND COMPARE AGAIN

071400BJAD DSA *-
06920 TF OBJAD,ADREG
06930AMBA AM OBJAD,*-*

071800BMES DS ,AMPES
06960 BTM ERPRNT,ORMES-1

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025300BSW DSC 1,0,, 1111 OR (CUST) LAST FOUND
06120DSWNLBDSA -DCSW,-OBSW,-CDVSW,-AMTSW
06320 BNF UPCOL,OBSW,, OR A SIGN HAS NOT PRECEDED
06340RSAMT TDM OBSW,0
06670 TDM OBSW,0
06750AMDSA2DSA -OBSW,-SGSW,-SGSW2
070100BDSA DSA DCSW,-OBSW,-AMTSW,-CDVSW
070300BDSA2DSA OBSW,-DCSW,-AMTSW,-CDVSW,-LPSW,-SGSW2

033400MES TF OUTPUT+78,CLR+78
03310ERPRNTBD OMES,PSW,, STANDARD ROUTINE TO OUTPUT DIAGNOSTIC

018400NESAI DC 6,1C0001
01900 A *-1,ONESAI
02020 A *-1,ONESAI

140600CG BTM GETADJ,WC+6*20
14250 B7 00G

006900RGI NOP
*** UNREFERENCED ***

021300RIGDADDA ,0,C,0,0
02050 TR WC,ORIGDA

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075900UTC SM TCMC-11,2,10

07490 BE OUTC
07510 BE OUTC
07610 BE OUTC

076600UTC2 TDM LCSW,1,11

07520 BLC OUTC2
08520 BLC OUTC2 ,,, ***FILL IN***

076700UTC3 CM TITSAV+2,4144,8

07650 B7 UUTC3

098300UTED SM TOEC+6,1,10

09750 BE OUTED
09920 B7 OUTED

103200OUTLINBD K41,PRSW

10850 BT OUTLIN,OUTLIN-1
10850 BT OUTLIN,OUTLIN-1
11070 BT OUTLIN,OUTLIN-1
11070 BT OUTLIN,OUTLIN-1
11430 BT OUTLIN,OUTLIN-1
11430 BT OUTLIN,OUTLIN-1
11600 BT OUTLIN,OUTLIN-1
11600 BT OUTLIN,OUTLIN-1
11920 BT OUTLIN,OUTLIN-1
11920 BT OUTLIN,OUTLIN-1
12620K0 BT OUTLIN,OUTLIN-1
12620K0 BT OUTLIN,OUTLIN-1
13520 BT OUTLIN,OUTLIN-1
13520 BT OUTLIN,OUTLIN-1
13560 BT OUTLIN,OUTLIN-1
13560 BT OUTLIN,OUTLIN-1

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13850 BT OUTLIN,OUTLIN-1
13850 BT OUTLIN,OUTLIN-1

137900OUTNOTBTM HEDLIN,NOTE

13740 BNE OUTNOT

029C00OUTPUTDAC 40,

,, PERMANENT

02930 DSA OUTPUT
02970 DSA OUTPUT
03170 TR OUTPUT-1,INPUT-1,, NO RMS ALLOWED ON CARD
03180 BNR RMERK,OUTPUT+160
033400MES TF OUTPUT+78,CLR+78
03350 TF OUTPUT+158,CLR+78
03360 TR OUTPUT+7,ERPRNT-1,11
03370 TFM **35,OUTPUT+6
03520 TR OUTPUT+39,INPUT-1
03580RBNR BNR **20,OUTPUT+40+160
03660 TF OUTPUT+46,CLR+46,, THIS IS THE CHITINERARY ERPRNT
03670 TR OUTPUT+47,*-13,11
03770 TR OUTPUT+39,INPUT-1
06540 BTM ERPRNT,OUTPUT+237,,BLANK CARD
10080 TF OUTPUT+112,HEDLIN-1,11
10110K61 TF OUTPUT+138,HEDLIN-1,11
10150 TR OUTPUT-1,TITSAV-1
10200 TF OUTPUT+8,CLR+8
10210 TFM OUTPUT+158,14,10
10240K51 TR OUTPUT+39,TITSAV-1
10260 TF OUTPUT+48,CLR+8
10280 TF OUTPUT+238,CLR+78
10290CR3 TF OUTPUT+158,CLR+78
10300 TF OUTPUT+78,CLR+78
10400FLD1 DSA OUTPUT+6
10410FLD2 DSA OUTPUT+96
10420FLD3 DSA OUTPUT+118
10430FLD4 DSA OUTPUT+138
10440FLD5 DSA OUTPUT+158
10590 TF OUTPUT+6,GLBNF+11,11
11840 TF OUTPUT+6,ACTMES
11980 TFM FLD1,OUTPUT+16
11990 TFM FLD2,OUTPUT+116

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12000	TFM	FLD3,OUTPUT+146
12010	TFM	FLD4,OUTPUT+176
12020	TFM	FLD5,OUTPUT+206
13840	TFM	OUTPUT,33,10
10160	TFM	TRSC+11,OUTPUT

07840OUTSWLC CRIT1,PHBERS

07730	BH	OUTSWL
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065600VBMESDAC 50,STUDENT PROGRAM EXCEEDS CORE CAPACITY AT THIS POIN,,

065200VERB	BTM	ERPRNT,QVBMES-1
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065800VBM2 DAC 43,STUDENT PROGRAM TERMINATED, JOB TERMINATED*

06530	BTM	ERPRNT,QVBM2-1
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065200VERB BTM ERPRNT,QVBMES-1

04630	BNL	OVERB
05920	BNL	OVERB

010600VLAP TF QVMES+80,*-1

01130	BTM	OVLAP,4171,8,	CHECKKY-STOPPY IF REAL BAD
01680	BTM	OVLAP,4472,8	
01710	BTM	OVLAP,4200,8	
01740	BTM	OVLAP,4471,8	
01770	BTM	OVLAP,4300,8	

011000VMES DAC 42,CORE OVERLAP, PROBLEM WITH WISAL PHASE ...*

010600VLAP	TF	QVMES+80,*-1
01080	WATY	QVMES

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01890PHASAITD SAVAL,300,2, SAVE 300-349

01910	CM	PHASAI+6,SAVAL+50
01920	BL	PHASAI
02260	TCD	PHASAI

03010PHBERSDC 3,0

04470	AM	PHBERS,1,10
04690	AM	PHBERS,1,10
05880	AM	PHBERS,1,10
06060	AM	PHBERS,1,10
06180	AM	PHBERS,1,10
06650	AM	PHBERS,1,10
06890	AM	PHBERS,1,10
06970	AM	PHBERS,1,10
07840OUTSWLC		CRIT1,PHBERS
07890NOGO	TD	FLFX,PHBERS
07900	TD	FLFX-2,PHBERS-1
07910	TD	FLFX-4,PHBERS-2
13730SEER	CM	PHBERS,0,210
13890	TD	FLFY,PHBERS
13900	TD	FLFY-2,PHBERS-1
13910	TD	FLFY-4,PHBERS-2

03020PHCERSDC 3,0

07790	AM	PHCERS,1,10
07860	C	CRIT3,PHCERS,,CHECK CUTOFF
07920	TD	FLF2,PHCERS
07930	TD	FLF2-2,PHCERS-1
07940	TD	FLF2-4,PHCERS-2
08590	AM	PHCERS,1,10
08740	AM	PHCERS,1,10
09300	AM	PHCERS,1,10
13760	CM	SEER+6,PHCERS
13920	TD	FLY,PHCERS
13930	TD	FLY-2,PHCERS-1
13940	TD	FLY-4,PHCERS-2

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05800PLFND TDM SGSW,0,, PLUS OR + FOUND -- THE 2 SIGN SWS ARE

05700PLUS DVLC ,2,57,2,53,2,64,2,62,2,99,5,PLFND
05720SPLUS DVLC ,2,10,2,99,5,PLFND
07320 SF PLFND+11

05700PLUS DVLC ,2,57,2,53,2,64,2,62,2,99,5,PLFND

05080 BTM SCAN,PLUS

00980PRIN CALL LOAC,361,, **CHANGE IF PROBLEM NOT DIM NO. 361**

02120 B7 PRIN
02240 TF PRIN+25,GETNO+5
02250 B7 PRIN

02940PRINT DS ,*-4, PRINTER I/O CONSTANT

03550 PUT PRINT
03690 PUT PRINT
10120 PUT PRINT
10270 PUT PRINT
10350K41 PUT PRINT

02980PRINT1DS ,*-4,

03690 PUT PRINT1

00370PRSW DC 1,1,, DSC 1,0 IF NO PRINTER

03450 BD TRA4,PRSW
03790A5TCD BNF TRA5,PRSW
07240 BD **24,PRSW

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07990 BNF **24,PRSW
09970BLLIN BD K71,PRSW
10070HEDLINBD K61,PRSW,7
10140TITLU BD K51,PRSW
10320OUTLINBD K41,PRSW
11970D1TCD BNF NOPRD,PRSW
13830ALLDONBD **44,PRSW

04850PSEEK BNF BDL+12,BDL+11,11, SW DESIRED TO BE OFF, BRANCH IF ON

04800 BNF PSEEK,BDL+11,, BRANCH IF THE SW IS DESIRED TO BE OFF
04820BDL BNF PSEEK+12,*-,, IS IT

03160PSW DS ,*-1

03150RMCHK TDM PSW,0
03310ERPPNTBD OMES,PSW,, STANDARD ROUTINE TO OUTPUT DIAGNOSTIC
03320 TDM PSW,1,11, PUNCH CARD COPY ONLY ONCE
07250 TDM PSW,1,11

03040PUNCH DCA ,OUTPUT

09980 PUT PUNCH
10220 PUT PUNCH
10330 PUT PUNCH

00440PUTADJPUT WCCC,RBC

01210 BT PUTADJ,PUTADJ-1
01210 BT PUTADJ,PUTADJ-1
01300 BT PUTADJ,PUTADJ-1,,
01300 BT PUTADJ,PUTADJ-1,,
01380 BT PUTADJ,PUTADJ-1,,
01380 BT PUTADJ,PUTADJ-1,,
01500 BT PUTADJ,PUTADJ-1
01500 BT PUTADJ,PUTADJ-1
01610 BT PUTADJ,PUTADJ-1
01610 BT PUTADJ,PUTADJ-1

WRITE OUT I.S.,B.S. LABELS BLOCK
WRITE OUT I.S.,B.S. LABELS BLOCK
G.L. LABELS FOR PHASE B
G.L. LABELS FOR PHASE B

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03470	BT	PUTADJ,PUTADJ-1
03470	BT	PUTADJ,PUTADJ-1
03820	BT	PUTADJ,PUTADJ-1
03820	BT	PUTADJ,PUTADJ-1
07340	BT	PUTADJ,PUTADJ-1
07340	BT	PUTADJ,PUTADJ-1
09510	BT	PUTADJ,PUTADJ-1
09510	BT	PUTADJ,PUTADJ-1
12080	BT	PUTADJ,PUTADJ-1
12080	BT	PUTADJ,PUTADJ-1
14240	BT	PUTADJ,PUTADJ-1
14240	BT	PUTADJ,PUTADJ-1

08500QCEND CM CCOL,INPUT+142,, IF CARD OVER

08460	BL	QCEND+24
08490TDMTR	B	QCEND,--,7
08600	B7	QCEND
08750	B7	QCEND
09020	B7	QCEND

00240R DS ,3*L, LENGTH OF A LEDGER ACCOUNT IN CONSTANT BLOCK

*** UNREFERENCED ***

05490RBACK C CZERO,COL,11, SUPPRESS BLANKS

04660	BD	RBACK,RBSW	
05530	BNH	RBACK,,,	NO, GO TO BLANK-CHECK

RBC *** UNDEFINED ***

00440PUTADJPUT WCDD,RBC

03580RBNR BNR **2C,OUTPUT+40+160

03130	NOP	RBNR+52	
03540	BE	RBNR,,,	DONT PRINT NEXT TITLE
03780	B7	RBNR	

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05300RBSW DS ,UPCOL+9

04430	TDM	RBSW,0	
04660	BD	RBACK,RBSW	
05270	TDM	RBSW,0,,	YES, SET SW TO RETURN TO SSUPP
05540	TDM	RBSW,1,11,	YES, SET SW TO RETURN TO RBACK

03070READ TD INPUT+1,INPUT+160,,RM TO EVEN LOCATION

03100	B7	READ	
04070	B7	READ	
04160	BNC2	READ	
05280	B7	READ,,,	AND GO TO READ A NEW CARD
05550	B7	READ,,,	AND GO TO READ NEW CARD
07310	TFM	WC+3*20+18,READ,,	TITLE CARD IS IN
07580	B7	READ	
08530	B7	READ	

02010RETA1 TD 300,SAVA1,2, PUT 300-349 BACK

01970	BD	RETA1,--,1,,	BE THIS A LIL OL MOD 1
02030	CM	RETA1+6,349	
02040	BNH	RETA1	

03150RMCHK TDM PSW,0

03090	BNR	RMCHK,INPUT+1,,	IF CARD ACTUALLY READ
03280	B	RMCHK+12	
03510	DCRG	RMCHK	

03200RMERK TDM WHDCOM+1,9

03120WHDCOMNOP RMERK+32

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03180 BNR RMERK,OUTPUT+160

03110RMES DAC 33,C-2-8 ON CARD, REPLACED BY BLANK'

03210 TFM ERPRNT-1,RMES-1
03610 TFM ERPRNT-1,RMES-1

03740RMSCANAM **23,2,10

03640 TFM RMSCAN+23,INPUT-2
03650 B RMSCAN

02170RNTY DTN ,GETND+2

02210 GET RNTY

05740RPARENDVLC ,2,04,2,99,5,RPFND

05120 BTM SCAN,RPAREN

06130RPDSA DSA -LPSW,-SGSW,-SGSW2

06190CLRSN BTM SETSWS,RPDSA

06150RPFND BNF UPCGL,LPSW

05740RPARENDVLC ,2,04,2,99,5,RPFND

06340RSAMT TDM OBSW,0

06290 BD RSAMT,AMTSW,, DID 'AMT' SHOW UP PREVIOUSLY
06780 B7 RSAMT

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00250S DS ,3*L, LENGTH OF A LEDGER ACCOUNT IN UPDATABLE BLOCK

06860 AM AMBA+11,S,10, S LIKE IN SHEEPSHEAD
10680 AM EDGL1+6,S,10
11140 SM EDAR1+6,S-2*L,10
11230 AM EDAR1+6,S,10
11740 SM EDGL1+6,S-2*L,10

01850SAVA1 DS ,19900

01890PHASAITD SAVAI,300,2, SAVE 300-349
01910 CM PHASAI+6,SAVA1+50
02010RETAI TD 300,SAVA1,2, PUT 300-349 BACK

05320SCAN TF OBJ,*-1,11, BRING IN CHAR DUE TO NECESSITY TO CF

05010 BTM SCAN,CREDIT
05020 BTM SCAN,DEBIT
05030 BTM SCAN,AMT
05040 BTM SCAN,LPAREN
05050 BTM SCAN,VOUC
05060 BTM SCAN,DISC
05070 BTM SCAN,CASH
05080 BTM SCAN,PLUS
05090 BTM SCAN,MINUS
05100 BTM SCAN,SPLUS
05110 BTM SCAN,SMINUS
05120 BTM SCAN,RPAREN
05330 AM SCAN-1,2,10, UP IN CONTROL NOW
05390 AM SCAN-1,3,10, UP TO AMBIG ADDRESS
05410 BE SCAN+12,,, EQUAL, UP TO NEXT CHAR
05420 TF SCAN-1,SCAN-1,11,UNEQUAL, SET UP IN NEW WORD AND
05420 TF SCAN-1,SCAN-1,11,UNEQUAL, SET UP IN NEW WORD AND
05440IFEND CM SCAN-1,99,610, IF END OF CONTROL WORD
05460 AM SCAN-1,5,10, YES, GO
05470 SF SCAN-1,,, TO
05480 B7 SCAN-1,,6, ROUTINE,WITH COL AT LAST CHAR
05500 RL SCAN,,,
05780 TFM SCAN-1,CUST,, SNEAK BACK IN FOR CUST

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0640SEC2 BNF SEC3,SGSW2

06360 BNR SEC2,SGSW2,, DETERMINE THE SIGN

06370SEC3 BNF SPOS,SGSW

06400SEC2 BNF SEC3,SGSW2

13730SEER CM PHBERS,0,210

13690 B7 SEER
13750 AM SEER+6,3,10
13760 CM SEER+6,PHCERS
13770 BNH SEER

02590SESW DSC 1,0,,

ERROR IN SENTENCE

06110DCDSA2DSA -SESW
06650 BD UPCOL,SESW,, ASSEMBLE NOTHING IF SENTENCE ERROR
06660 TDM SESW,1,10
06980WHOP TDM SESW,1,11

04900SETSWSTF TDM,+6,*-1,11,

ROUTINE TO SET SWS AS SPECIFIED

04480 BTM SETSWS,DSWNLH
04960 AM SETSWS-1,5,10
04970 BNR SETSWS,SETSWS-1,11
04970 RNR SETSWS,SETSWS-1,11
05950 BTM SETSWS,DCDSA2
06080 BTM SETSWS,DCDSA2
06190CLRSN BTM SETSWS,RPDSA
06990 BTM SETSWS,UBDSA2

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02540SGSW DSC 1,0,,

SIGN OF LOCAL AMT

05750LPFND TD SGSW2,SGSW,, BOUNCING OUT OF SCAN WITH (FOUND
05760 TDM SGSW,0
05800PLFND TDM SGSW,0,, PLUS OR + FOUND -- THE 2 SIGN SWS ARE
05830MNFND TDM SGSW,1,11,, MINUS OR - FOUND 1 FOR MINUS, FLAGGED
06130RPDSA DSA -LPSW,-SGSW,-SGSW2
06160 BNF CLRSN,SGSW
06300 HD *+36,SGSW
06370SEC3 BNF SPOS,SGSW
06380 BNR SNEG,SGSW
06410 BNF SNEG,SGSW
06420 HNR SPOS,SGSW
06440SPOS TDM SGSW,0
06750AMDSA2DSA -ORSW,-SGSW,-SGSW2

02550SGSW2 DSC 1,0,,

SIGN OF PARENTHETICAL EXPRESSION

05750LPFND TD SGSW2,SGSW,, BOUNCING OUT OF SCAN WITH (FOUND
06130RPDSA DSA -LPSW,-SGSW,-SGSW2
06310 BD **24,SGSW2,, IGNORE THE WORD IF NNNN, (CUST),
06360 BNR SEC2,SGSW2,, DETERMINE THE SIGN
0640SEC2 BNF SEC3,SGSW2
06750AMDSA2DSA -ORSW,-SGSW,-SGSW2
07030BDSA2DSA ORSW,-DCSW,-AMTSW,-CDVSW,-LPSW,-SGSW2

09320SLMES DAC 40,SUBLENGER USED ERRONEOUSLY, TRAN NO 777

09260 TD SLMES+76,CNT
09270 TD SLMES+74,CNT-1
09280 TD SLMES+72,CNT-2
09290 BTM ERPRNT,SLMES-1

09330SLOK AM DD+6,*-*

09250 BNR SLOK,SUBAD

05730SMINUSDVLC ,2,20,2,99,5,MNND

05110 BTM SCAN,SMINUS

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01570SM7 AM BNF2+11,*,*,6
01190 TF SM7+11,ADJF,, SAVE UPDATABLE BLOCK ADJUSTMENT
01280 A HEDDSA+6*5,SM7+11,, WHOOPS -- UPDATE HEADER DSA-S
01290 A HFDDSA+7*5,SM7+11,, FOR UPDATABLE BLOCK

06430SNEG SF INST
06380 BNR SNEG,SGSW
06410 BNF SNEG,SGSW

09110SDMAMTCM AMB2+11,*,*
09030MORYETBNR SOMAMT,AMB2+11
09090 BD SOMAMT,AMB2+11
09100 B7 SOMAMT+24

05720SPLUS DVLC ,2,10,2,99,5,PLFND
05100 BTM SCAN,SPLUS

06440SPOS TDM SGSW,U
06370SEC3 BNF SPOS,SGSW
06390 B7 SPOS
06420 BNR SPOS,SGSW

05150SSUPP C CZEPO,COL,11, SPACE SUPPRESS, ENTERS HERE
04670 B7 SSUPP
05260 BNH SSUPP,,, NO, GO TO SUPPRESS SPACES

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14160STCR1 DC L,0
13020KZ TFM **23,STOR1
13110KW TFM **23,STOR1
13200KT TF STOR1,C3T
13260KQ TF STOR1,C2T

14170STOR2 DC L,0
13070KY TFM KZ+23,STOR2
13160KV TFM KW+23,STOR2
13220KS TF STOR2,C3T
13280KP TF STOR2,C2T

14180STOR3 DC L,0
13090KX TFM KZ+23,STOR3
13180KU TFM KW+23,STOR3
13240KR TF STOR3,C3T
13300KO TF STOR3,C2T
13600 A C3T,STOR3

09340SUBAD DS ,*
08870 TF SUBAD,TFND+11,11
08890NSUBL TFM SUBAD,0
09250 BNR SLOK,C,SUBAD

06070SWELL CF DSWNLB
06020 B7 SWELL
06040 BNF SWELL,TRSW

01540S2 TF **23,*,*,, SPECIAL RELOCATION
01580UPS2 A S2+11,ADJF,6

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01530 AM S2+11,5,10
01600 BNR S2,S2+11,11
01600 BNR S2,S2+11,11

08940TBNR TD AMB2+11,+-*

08800 TF TBNR+11,AGOGO+35,11,AD OF START OF ROUTINE
09000 AM TBNR+11,5,10
09010 BNR MORYET,TBNR+11,11
09220 TF DO+6,TBNR+11,11
09360NXT AM TBNR+11,1,10
09370 B7 TBNR

14020TBCX DC 28,2300

13880 TF TBOX-4,EDITA

07280TCDB TFM WC+13,BEGINB

07360LSDSA DSA TCDB-LSMNM+107
07370 TCD TCDB
07380ENDB DS ,TCDB-1

07600TCMC C CLR,INPUT+160,7

075900UTC SM TCMC+11,2,10
07620 AM TCMC+11,2,10
07630 TDM TCMC+11,0,6

09790TDED TD *-*,EDCM+6,11

09730 TFM TDED+6,EDITA-8
09760 SM TDED+6,2,10
09770 C C23D1,TDED+6,11
098300UTED SM TDED+6,1,10
09840 SF* TDED+6,,6

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09870LSTED SM TDED+6,2,10
09880 C C23D1,TDED+6,11
09900 TD TDED+6,EDCM+6,611
09910 CF TDED+6,,6

04950TDMJ TDM *-*,1,11

04900SETSWSTF TDMJ+6,*-1,11, ROUTINE TO SET SWS AS SPECIFIED
04910 BNF TDMJ,TDMJ+6
04910 BNF TDMJ,TDMJ+6
04920 CF TDMJ+6
04930 TDM TDMJ+6,0,6
04940 B7 TDMJ+12

08490TDMTR B UCEND,*-*,7

08190 TF TDMTR+11,TOSWAD
08200 A TDMTR+11,CNT
08410 AM TDMTR+11,1,10
08540NDSKIPBNF AGOGO-12,TDMTR+11,11
08630 TDM TDMTR+11,1,611

05200TNUM TD ALPHAN-6,COL,11, NO

05000 TFM TNUM+6,ALPHAN-6,, THIS AINT NO NUMERIC
05230 AM TNUM+6,2,10, NO, THEN EVER
06810 TFM TNUM+6,ALPHAN-6

06010TDX TDM **1C,1

04600 TDM TDX+10,0

08130TEMPC DD ,WC+20,,,A

07820NOTUCHPUT TEMP,,, ADMIN RUN, WRITE BACK UPDATABLES

181

 11220TFARLBTF ***,ARBNF+11,11
 11150ARLOOPTF TFARLB+6,FLD1
 11160 AM TFARLB+6,8,10
 11180 AM TFARLB+6,2,10

10670TFLABDTF ***,GLBNF+11,11
 10620 TF TFLABD+6,FLD1
 10640 AM TFLABD+6,2,10

06820TFLB TF **23,***
 06790NNNN TF TFLB+11,HEDDSB
 06850 AM TFLB+11,5,10
 06870 BNR TFLB,TFLB+11,11
 06870 BNR TFLB,TFLB+11,11

12390TFLBISTF ***,***
 12320 TF TFLBIS+11,ISBNF+11
 12330 SM TFLBIS+11,2,10
 12370TFMD2 TFM TFLBIS+6,***
 12380 A TFLBIS+6,ISBNF+11,11

12370TFMD2 TFM TFLBIS+6,***
 12230 TF TFMD2+11,FLD1
 12240 AM TFMD2+11,20,10

08810TFNO TF NOAPTS,***,, PROCESS TRANSACTION HEADER
 08640AGDGO TF TFNO+11,***,, FILL IN FROM HEDDSA+8*5
 08820 AM TFNO+11,3,10
 08830 TF LITS,TFNO+11,11
 08860 AM TFNO+11,5,10
 08870 TF SUBAD,TFNO+11,11
 09200NUMAMTTF DD+11,TFNO+11

182

10450TIMES DSAC 5,TITLE,
 11020 TF *-18,TIMES,6
 11870 TF ***,TIMES
 12190 DDORG TIMES-1

027COTITLA2DSAC 5,TITLE
 02610 C INPUT+8,TITLA2

04270TITLB DSAC 5,TITLE
 03970LABCHKC TITLB,INPUT+8

04090TITLBFRCY
 03980 BE TITLBF
 04000 BE TITLBF

08100TITLC DSAC 5,TITLE
 07430 C TITLC,INPUT+8

00290TITLESDS ,LDSA+5
 10920 BT HEDLIN,TITLES
 11630 BT HEDLIN,TITLES
 11670 BT HEDLIN,TITLES+2*5

11770 BT HEDLIN,TITLES
11810 BT HEDLIN,TITLES+5
13390 BT HEDLIN,TITLES
13430 BT HEDLIN,TITLES+3*5

10140TITLO BD K51,PRSW

11610 BT TITLO,TITLO-1
11610 BT TITLO,TITLO-1
11750 BT TITLO,TITLO-1
11750 BT TITLO,TITLO-1
13370KM BT TITLO,TITLO-1
13370KM BT TITLO,TITLO-1
13460KL BT TITLO,TITLO-1
13460KL BT TITLO,TITLO-1

02480TITSAVDAC 40, ,SAVE TITLE

07230 TR TITSAV-1,INPUT-1
07260 BTM ERPRNT,TITSAV-1
07670OUTC3 CM TITSAV+2,4144,8
10150 TR OUTPUT-1,TITSAV-1
10240K51 TR OUTPUT+39,TITSAV-1

08080TOSWADDSA *-*

07690 TF CNTBD+11,TOSWAD
08190 TF TDMTR+11,TOSWAD
09410BEGINCTF TOSWAD,HEDDSA+6*5
09420 SM TOSWAD,L,10
09430 S TOSWAD,HEDDSA+9*5

10560TOTARSDSAC 11,TOTALS \$,

11510 TF *-*,TOTARS

10480TOTCR DSAC 10,TOTAL CR ,,

11050 TF FLD4,TOTCR,6
11900 TF FLD4,TOTCR,6

10490TOTDB DSAC 10,TOTAL DB ,,

11040 TF FLD3,TOTDB,6
11890 TF FLD3,TOTDB,6

01780TRAI TRA BACK TO DO PHASE A2

*** UNREFERENCED ***

02720TRA2 SM CA2+11,2,10

02620 BE TRA2
02640 BE TRA2

03480TRA4 TRA

03450 BD TRA4,PKSW

03830TRA5 TRA

03790ASTCD BNF TRA5,PRSW

04570TRLAB TR LSMNEM+7,LSMNEM+21,2

04490LASWOKF CLAB+6,TRLAB+6
04560 S TRLAB+11,145
04620 C INSLAB,TRLAB+6
05910 C INSLAB,TRLAB+6
05930 TF WC+18,TRLAB+6

184

185

06500 C INRAD,TRLAB+6

10180TRSC BNR *-12,*-*

10160 TFM TRSC+11,INPUT
10170 AM TRSC+11,2,10

04780TRSW DS ,*-1

04450 BNF LASWOK,TRSW,, NOW TEST IF STATUS SWS ARE ALL IN ORDER
04770LGCANDTDM TRSW,0,, RESET OUTPUT SW TO OK
04830 TDM TRSW,1,11, NO, SET OUTPUT SW TO NOT OK
05860 BNF **36,TRSW,, FOUND, GET OUT
06040 BNF SWELL,TRSW
06610 TD HOSW,TRSW
06630 BNF **48,TRSW
06950 BNF **48,TRSW

08610TWOMESDAC 27,TRANSACTION CODED TWICE, NO

08580 BTM ERPRNT,TWOMES-1

08620TWOME2DAC 5, 777'

08550 TD TWOME2+2,CNT-2
08560 TD TWOME2+4,CNT-1
08570 TD TWOME2+6,CNT

09390TWOSC DC 6,200002

*** UNREFERENCED ***

05240UPCOL AM COL,2,10, ONWARD, LIKE UP ON CARD

05140 BE UPCOL,,, NO,GO TO MOVE IT

176

05160 BNL UPCOL
05300R6SW DS ,UPCOL+9
05840 B7 UPCOL
06100 B7 UPCOL
06150RPFND BNF UPCOL,LPSW
06200 B7 UPCOL
06320 BNF UPCOL,ORSW,, OR A SIGN HAS NOT PRECEDED
06450 RD UPCOL,SESW,, ASSEMBLE NOTHING IF SENTENCE EPROR
06510 BL UPCOL
06710 B7 UPCOL
07000 B7 UPCOL

06700UPCOL6TDM CDVSW,0

06590AMFND BD UPCOL6,CDVSW
06720HOSW DS ,UPCOL6+10

01580UPS2 A S2+11,ADJF,6

01550BNF2 BNF UPS2,*-*,, TRANSACTIONS HAVING SUBLEDGER HAVE FLAG

06270VCFND TDM INST,0,,

VOUC FOUND

05670VOUC DVLC ,2,65,2,56,2,64,2,43,2,99,5,VCFND
06230 B7 VCFND+12
06260 B7 VCFND+12

00890VKADJ TF **14,*-1,11

01200 BTM VKADJ,HEDDSA+5,, RELOCATE B.S.,I.S. LABELS TABLE
01350 BTM VKADJ,HEDDSA+5*5
01420 BTM VKADJ,HEDDSA+5*5,, UNRELOCATE VECTORS
01450 BTM VKADJ,HEDDSA+5*5

05670VOUC DVLC ,2,65,2,56,2,64,2,43,2,99,5,VCFND

05050 BTM SCAN,VOUC

177

00450 TFM WC+13, *- *
 00480DDATR TR WC, WC, 2
 00490 A WC+5, WC+8
 00490 A WC+5, WC+8
 00510WCDD DD , WC, , A, WISAL WILL UPDATE TO WORK CYLINDERS ITSELF
 00720 TF WC+10, DKADJ-1, 11
 00740 S WC+10, DKADJ-1, 11
 00750 TF WC+13, DKADJ-1, 11
 00760 AM WC+8, 1, 10, LENGTH OF BLOCK UP TO NEXT HUNDRED
 00790 S NUAD-2, WC+8
 00810 S ADJF, WC+13
 01270 DSA HEDDSB+5, HEDDSB, WC+20+13
 01440 DSA HEDDSB+3*5, HEDDSB+5, WC+20+13
 01520 DSA HEDDSB+5*5, HEDDSB+4*5, WC+20+13
 01660 CM WC+2*20+13, ENDDZ
 01690 CM WC+3*20+13, ENDB
 01720 CM WC+4*20+13, ENDD1
 01750 CM WC+5*20+13, ENDC
 02050 TR WC, 0, IGDA
 02060 TD WC, 42, , GET LOCATION OF WORK CYLINDERS
 02070 TF WC+3, 425, , MONITOR COULD DO THIS
 03430A4TCD TFM WC+13, DCSW
 03460 TF WC+8, A4DSA-2
 03810 TF WC+8, A5DSA-2
 04170 BTM GETADJ, WC+6*20
 04240 BTM GETADJ, WC+7*20, 711, RE-CALL PHASE B
 05930 TF WC+18, TRLAB+6
 05940 AM WC+18, 7, 10
 05960 BTM GETADJ, WC+8*20, 711, LINK TO PHASE C
 07270 BTM GETADJ, WC+3*20, 711
 07280TCDH TFM WC+18, BEGNEB
 07290 TFM WC+13, LSMNEM-7
 07310 TFM WC+3*20+18, READ, , TITLE CARD IS IN
 07330 TF WC+8, LBDSA-2
 07880 BTM GETADJ, WC+9*20, 711, LINK TO D1
 08010 BTM GETADJ, WC+6*20
 08020 BTM GETADJ, WC+7*20, 711, LINK TO B
 08130TEMPC DD , WC+20, , A
 08630 TF **23, WC+18, , AD OF START OF SYMTAB
 09440 BTM GETADJ, WC+20

188

09450 BTM GETADJ, WC+5*20, 711
 09460CTCD TFM WC+5*20+18, LABCHK, , BEGIN C WITH CARD ALREADY READ
 09470 TFM WC+18, BEGNC
 09480 TFM WC+13, LABCHK
 09500 TF WC+8, CLDSA-2
 11690 BTM GETADJ, WC+10*20, 711
 11940 BTM GETADJ, WC+4*20, 711
 12030NOPRD TFM WC+4*20+18, GLLLOOP
 12040 TFM WC+18, GLOUT
 12060 TFM WC+13, EDIT
 12070 TF WC+8, D1DSA-2
 12200REGND2BTM GETADJ, WC+2*20
 13990 BTM GETADJ, WC+6*20
 14000 BTM GETADJ, WC+7*20, 711, LINK TO B
 140600GG BTM GETADJ, WC+6*20
 14070 BTM GETADJ, WC+7*20, 711
 14190D2TCD TFM WC+18, BEGND2
 14200 TFM WC+13, BEGND2
 14220 TF WC+8, D2DSA-2

00510WCDD DD , WC, , A, WISAL WILL UPDATE TO WORK CYLINDERS ITSELF

00440PUTADJPUF WCDD, RBC

02110WHATP BD GETAO, MLPRSW, , DIGIT IN POS. 2 OF SECTOR FOR YES

*** UNREFERENCED ***

03120WHCCOMNOP RMERK+32

03200RMERK TDM WHCCOM+1, 9
 03230 TDM WHCCOM+1, 1
 03420 B7 WHCCOM
 03600 TDM WHCCOM+13, 9
 03630 TDM WHCCOM+13, 1
 03730 B7 WHCCOM

069H0WHCP TDM SESW, 1, 11

06900 B7 WHOP

189

06280WISGM DGM *

*** UNREFFRNCFD ***

01050WLRC DAC 41, WISAL VS. PROBLEM FIELD LENGTH NON-MATCH*

01030 WATY WLRC

02160WPRB DAC 33, ENTER 4-DIGIT DIM NO. OF PROBLEM*

02190 WATY WPRB

04080XREFB DSAC 4, XREF

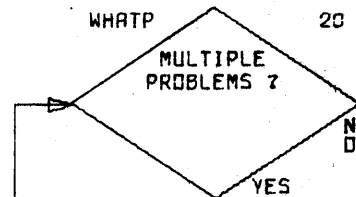
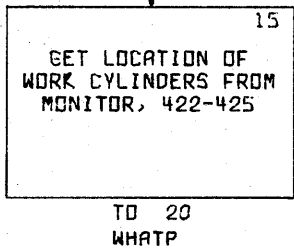
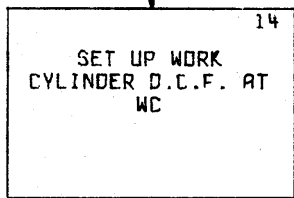
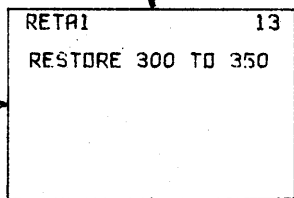
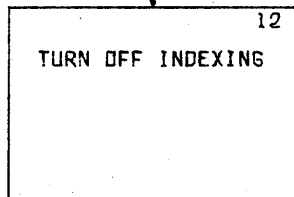
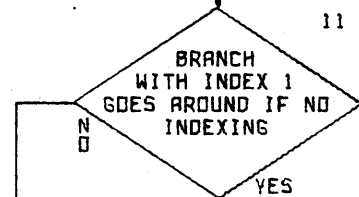
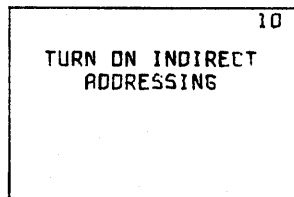
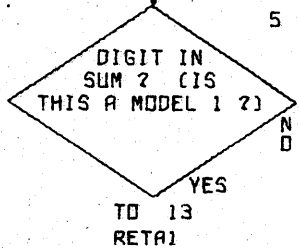
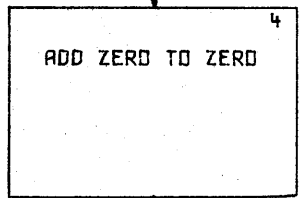
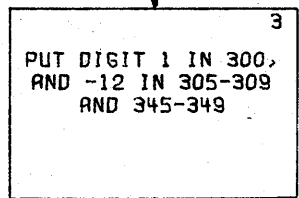
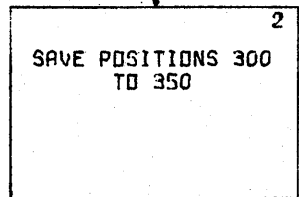
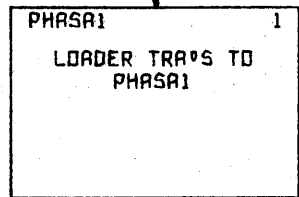
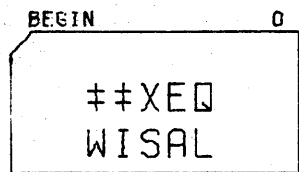
04010 C XREFB, INPUT+6

08090XREFC DSAC 4, XREF

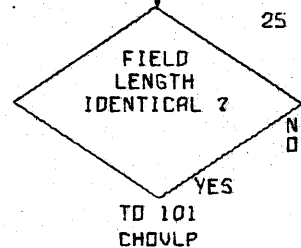
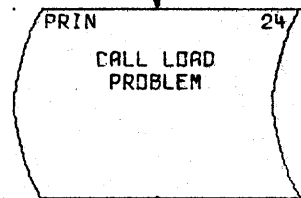
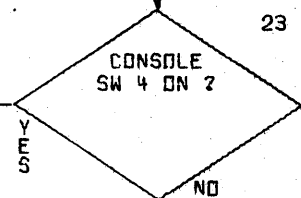
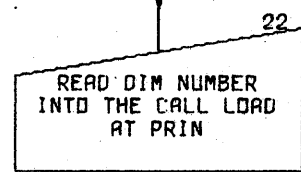
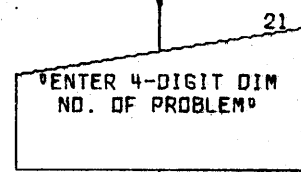
07460 C XREFC, INPUT+6

0707014S DC 7, 1400014

04560 S TRLAB+11, 14S



PRIN
24



100
°WISAL VS. PROBLEM
FIELD LENGTH
NON-MATCH°

EXIT

CHOVLP 101
COMPARE
END OF PHASE
A1 TO PROBLEM
LD-CORE

102
GO TO DVLAP WITH
PHASE NAME A1

DVLAP 103
MOVE PHASE NAME
INTO MESSAGE

104
°CORE OVERLAP,
PROBLEM WITH WISAL
PHASE ..°

EXIT

SDSDSD 111
GO TO DKADJ FOR
UPDATABLE BLOCK
(G.L., A.R.
TOTALS)

112
SAVE REDUCTION
FACTOR AT SM7+11

113
GO TO VKADJ FOR
TABLE IN I.S.,
B.S. LABELS
BLOCK

114
GO TO PUTADJ FOR
UPDATABLE BLOCK

115
GO TO DKADJ FOR
B.S., I.S.
LABELS BLOCK

TO 120

120
GO TO PUTADJ FOR
B.S., I.S.
LABELS BLOCK

121
GO TO DKADJ FOR
G.L. LABELS
BLOCK FOR PHASE
B USE

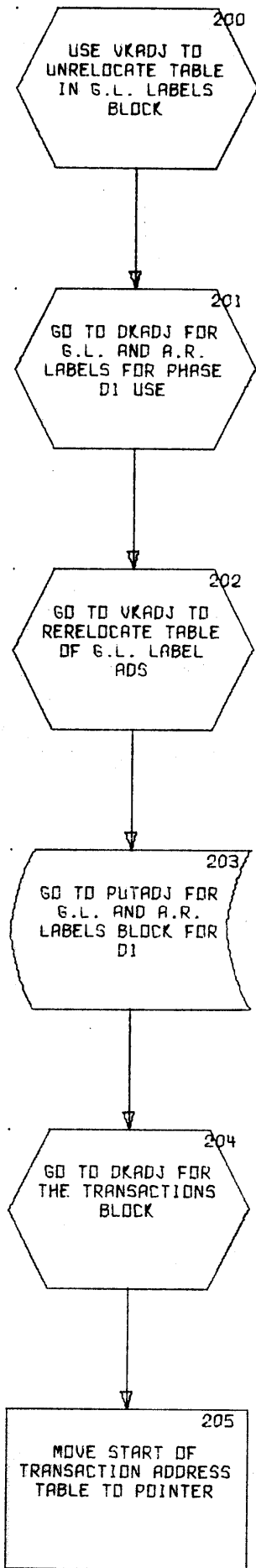
122
GO TO VKADJ FOR
TABLE IN G.L.
LABELS BLOCK

123
GO TO PUTADJ FOR
G.L. LABELS
BLOCK FOR PHASE
B

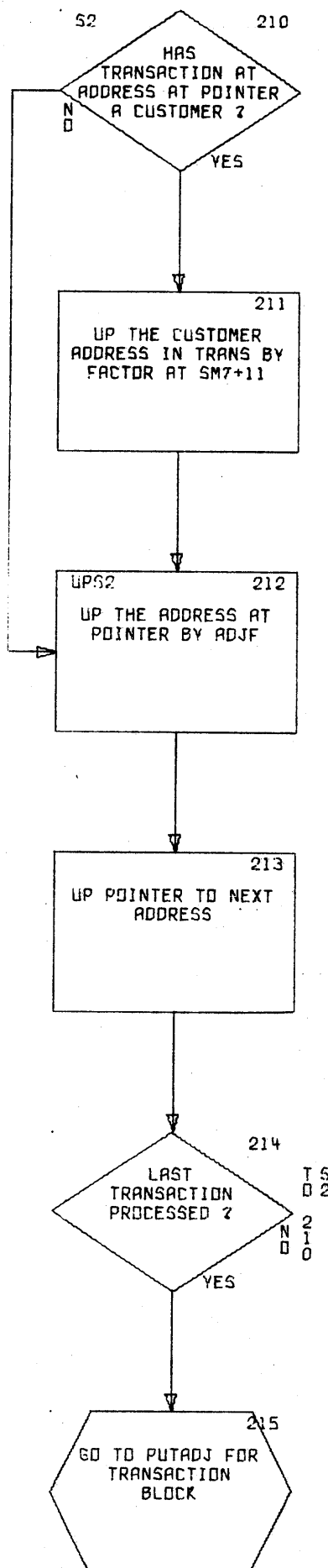
124
SAVE ADJUSTED START
OF G.L. LABELS AT
HEDDSB

125
REVERSE SIGN OF
ADJF

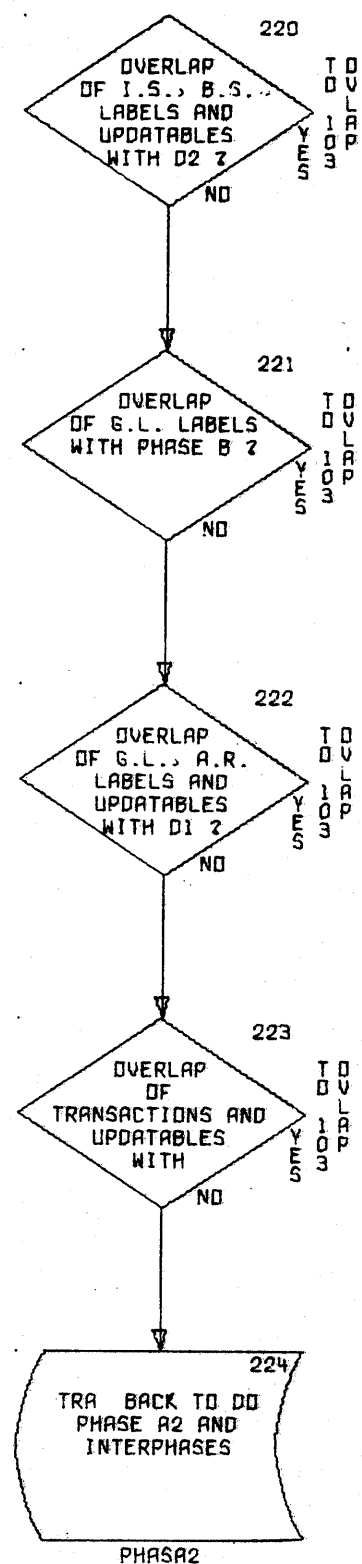
TO 200

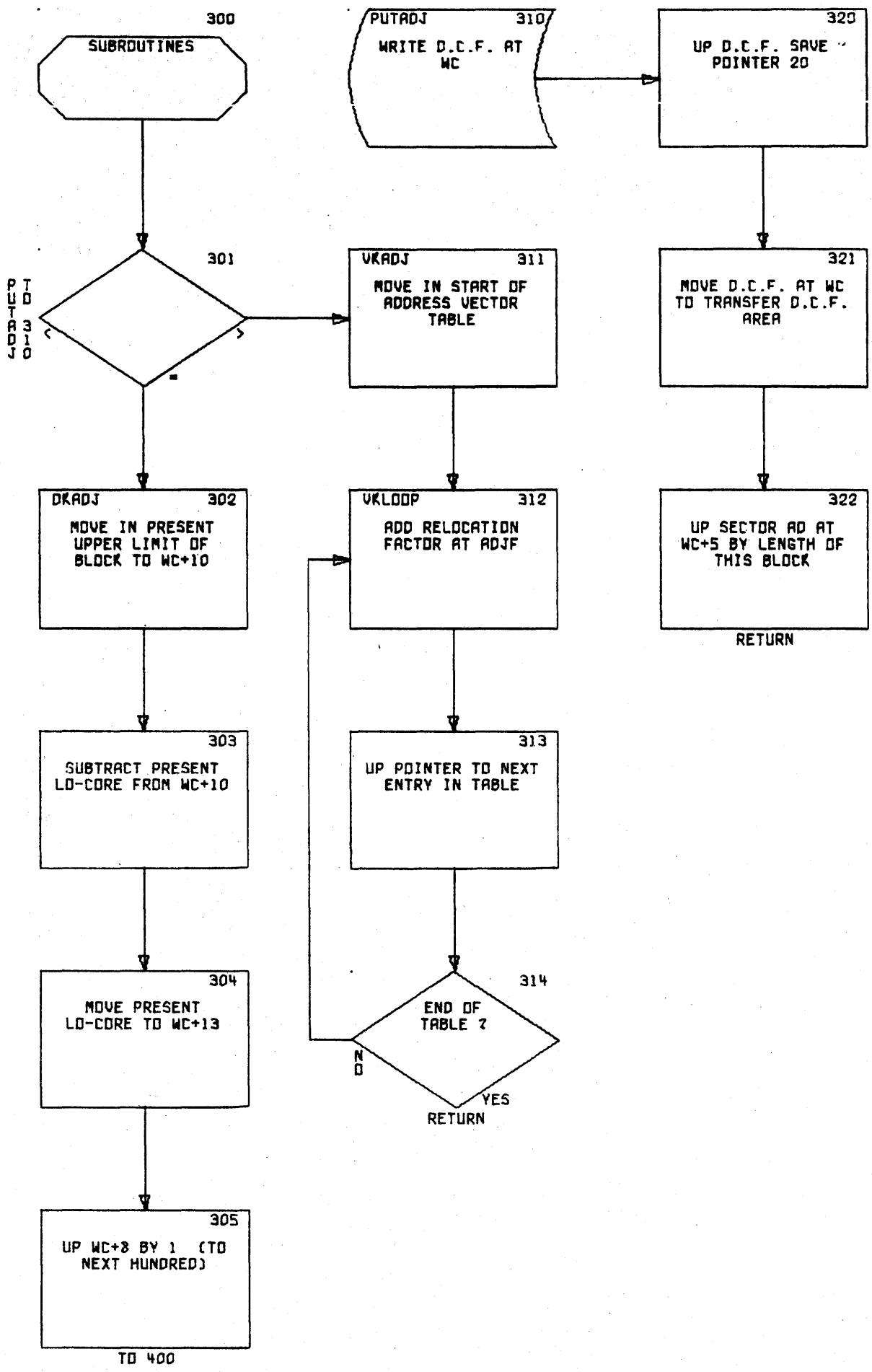


TO 210
S2



TO 220





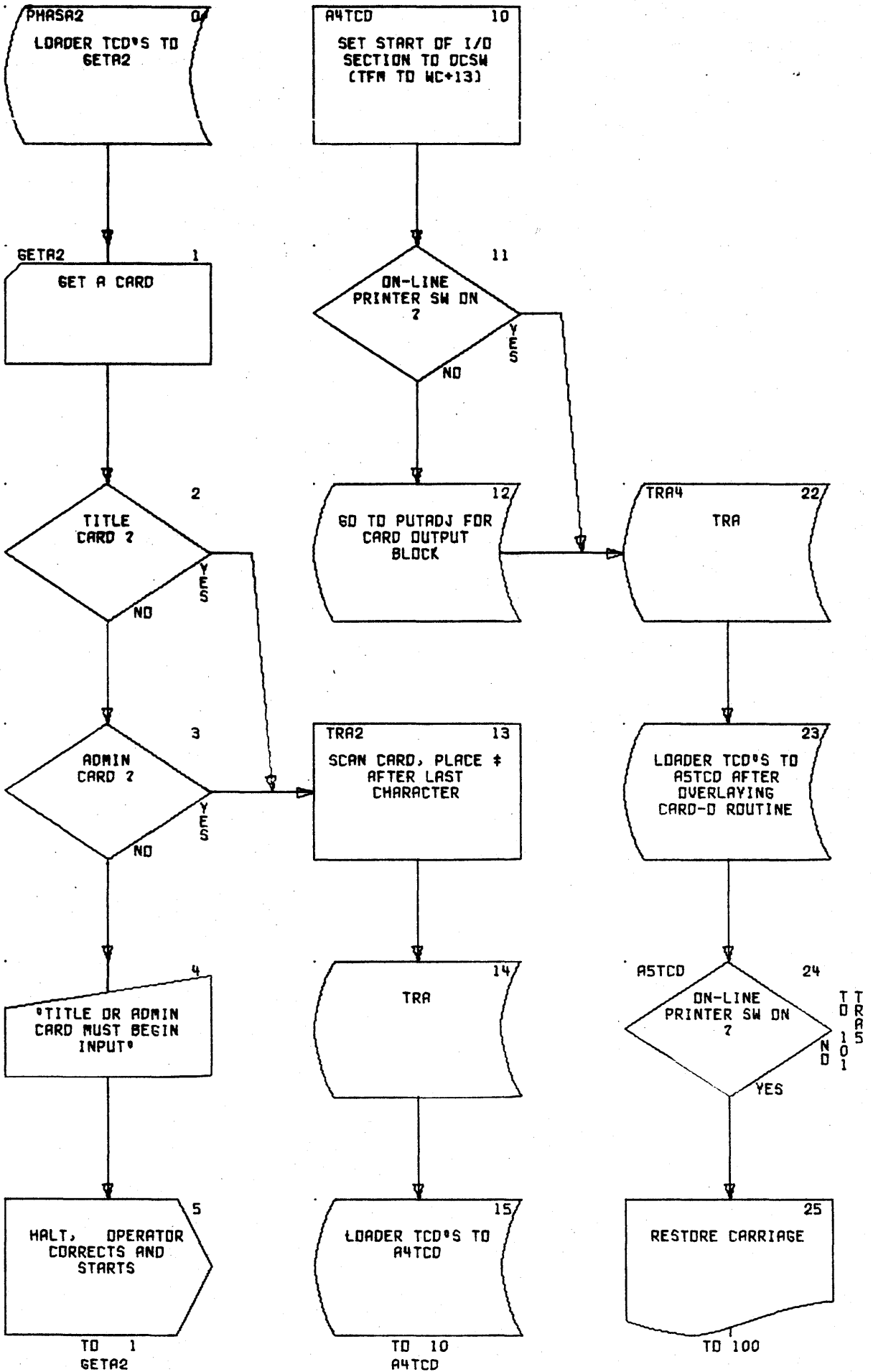
MOVE EXECUTION
UPPER LIMIT TO NUAD
AND ADJF

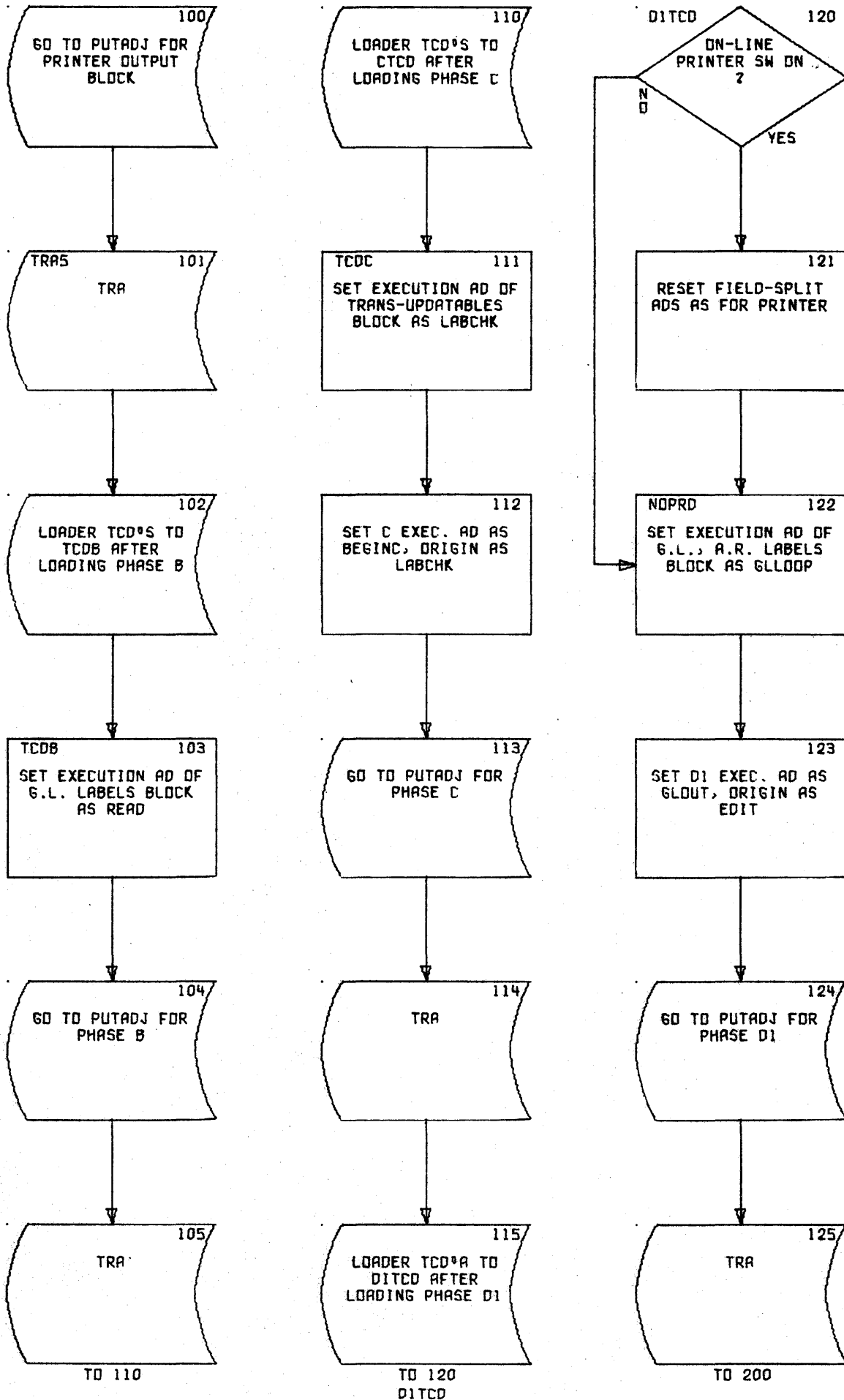
401
SUBTRACT SECTOR
COUNT AT WC+8 FROM
NUAD-2

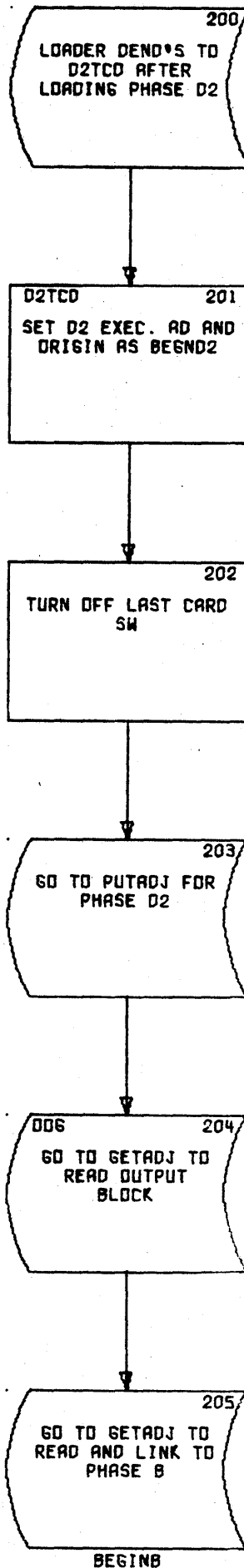
402
SUBTRACT PRESENT
UPPER LIMIT FROM
ADJF

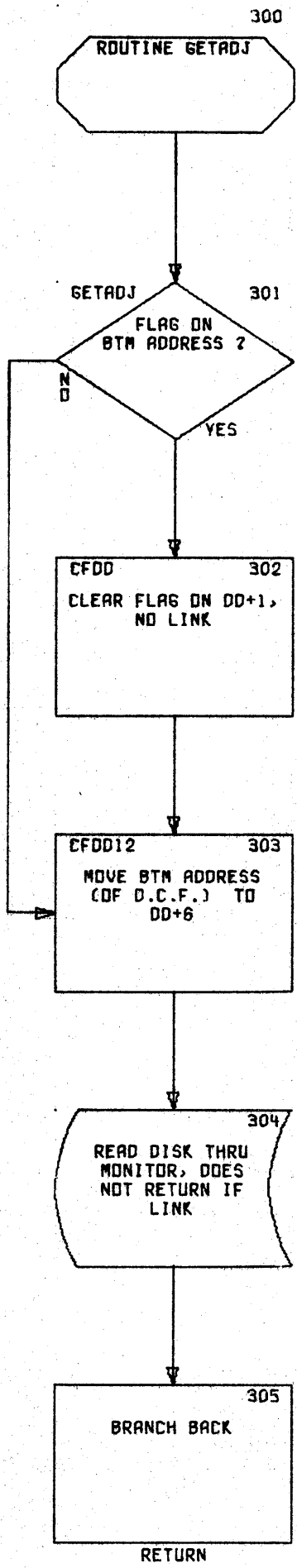
403
ADJF IS NOW
RELOCATION FACTOR
OF THIS BLOCK

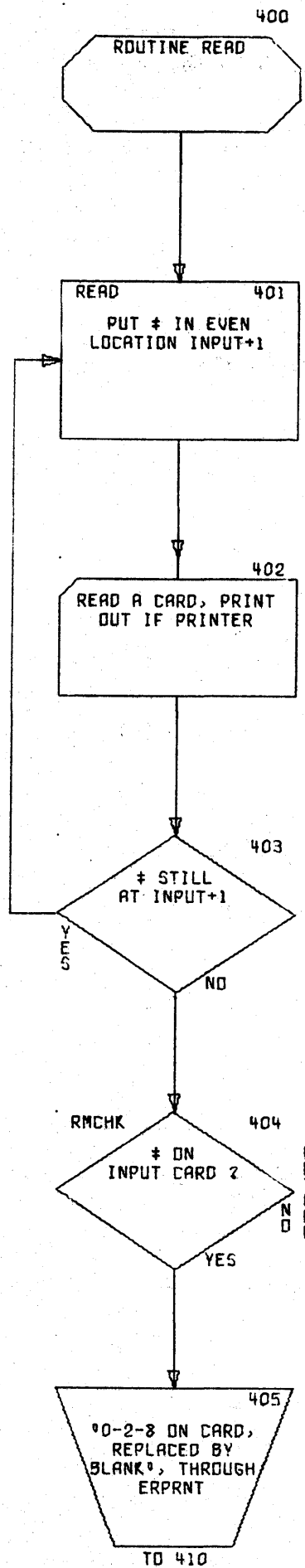
RETURN



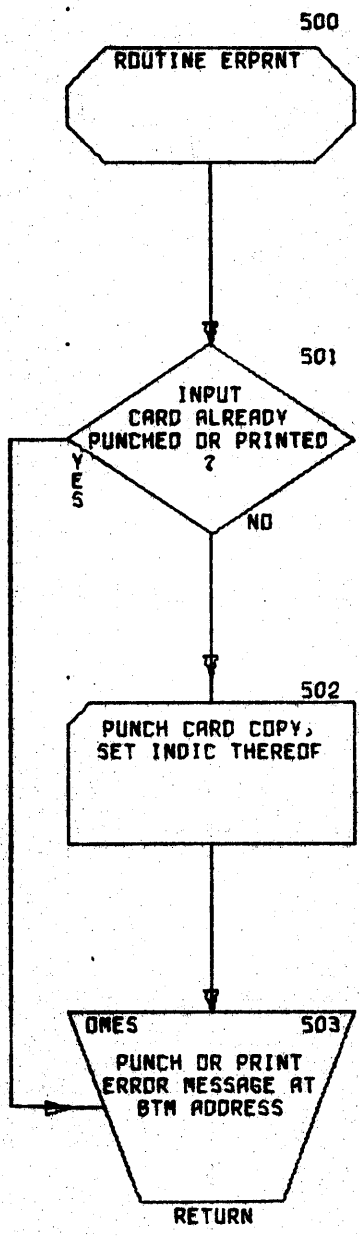


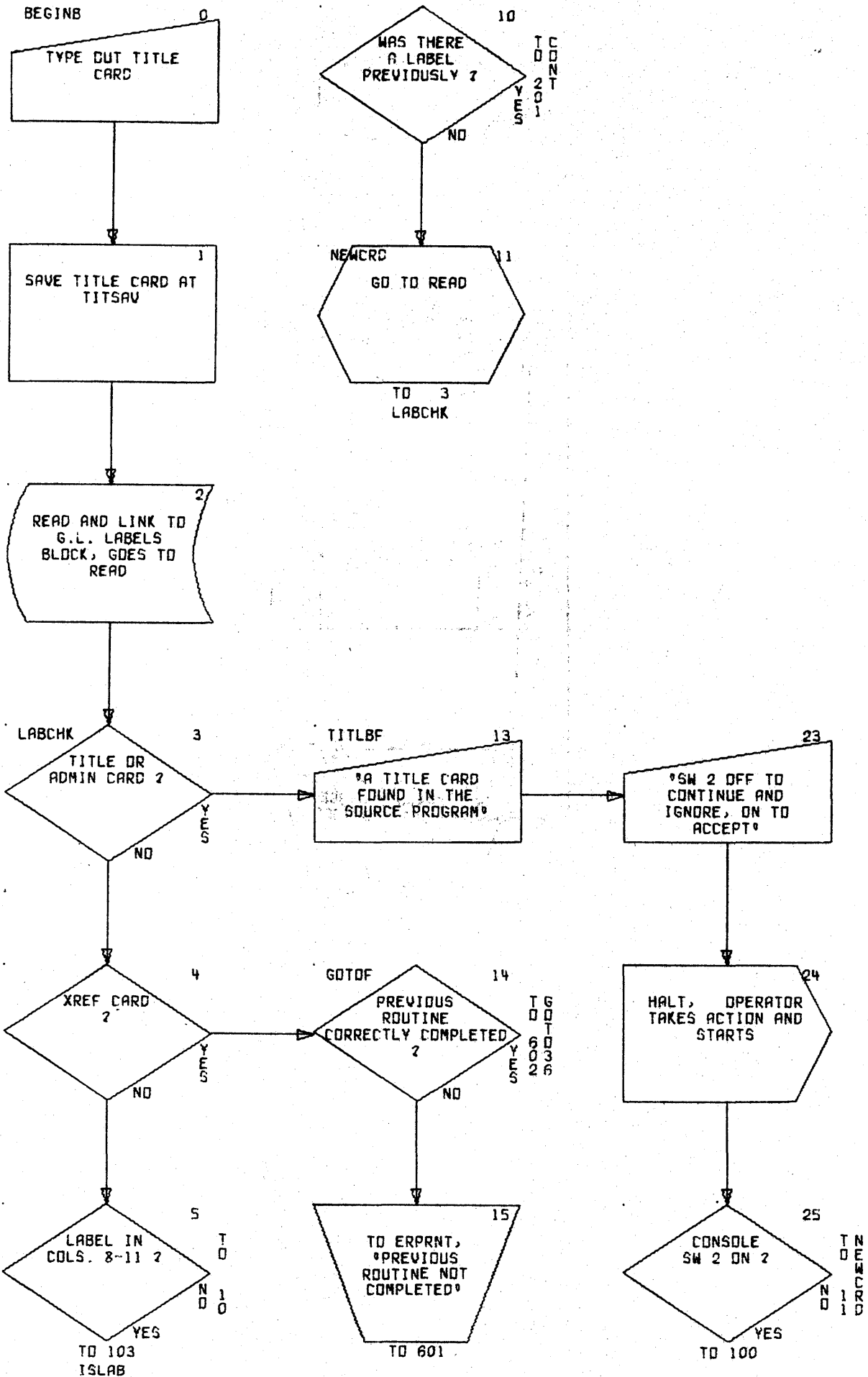


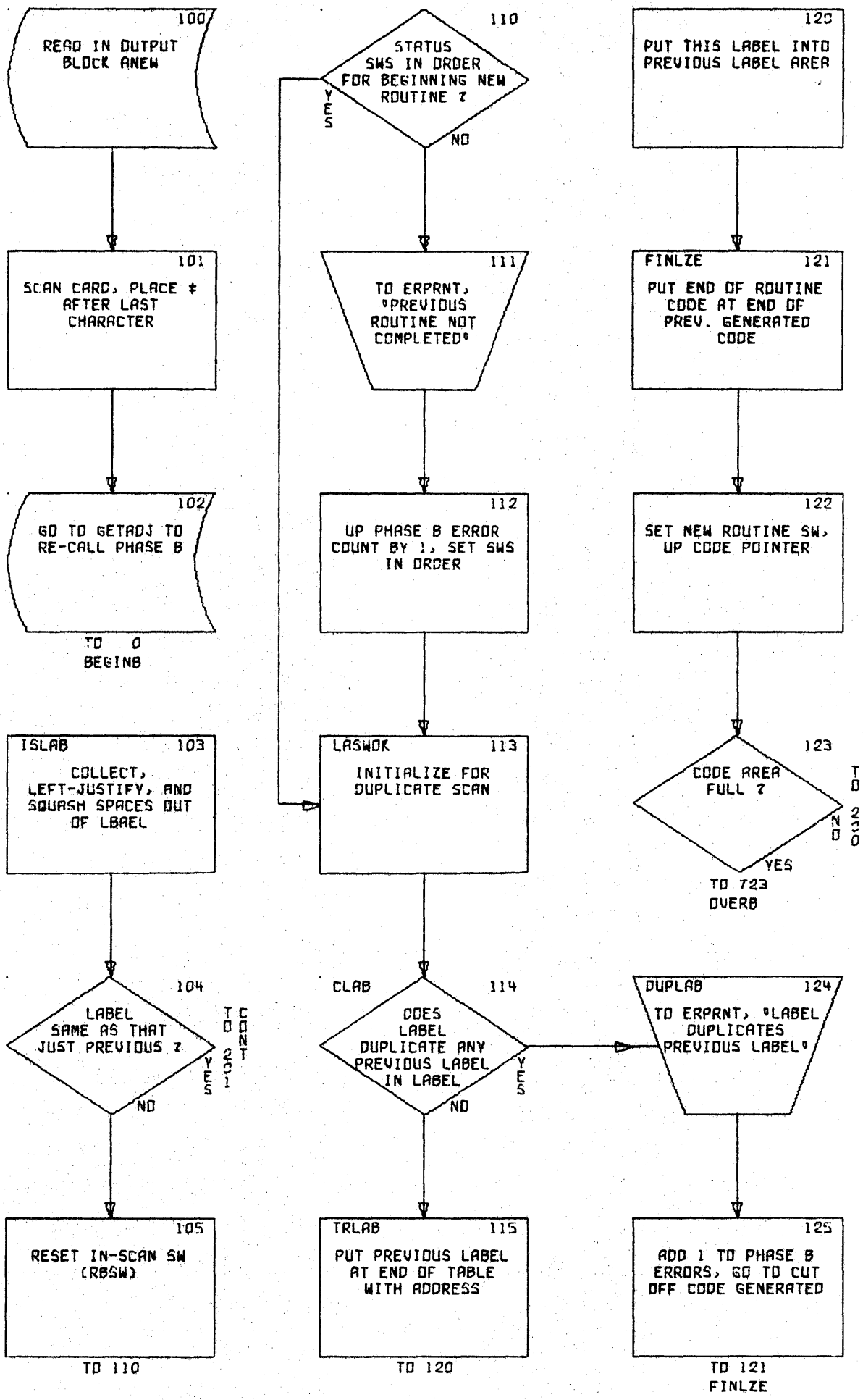


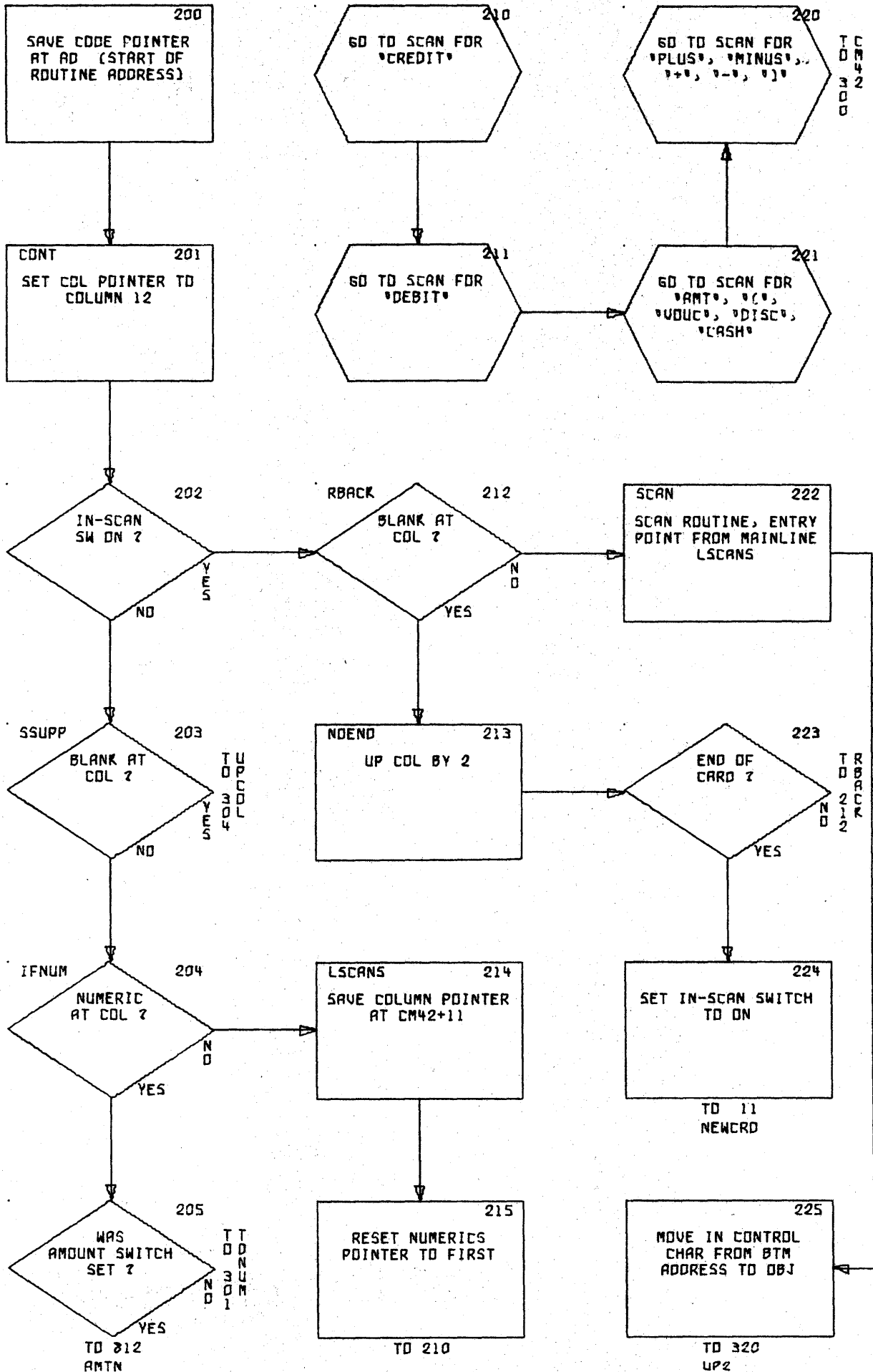


410
KILL #
TO 404
RMCHK









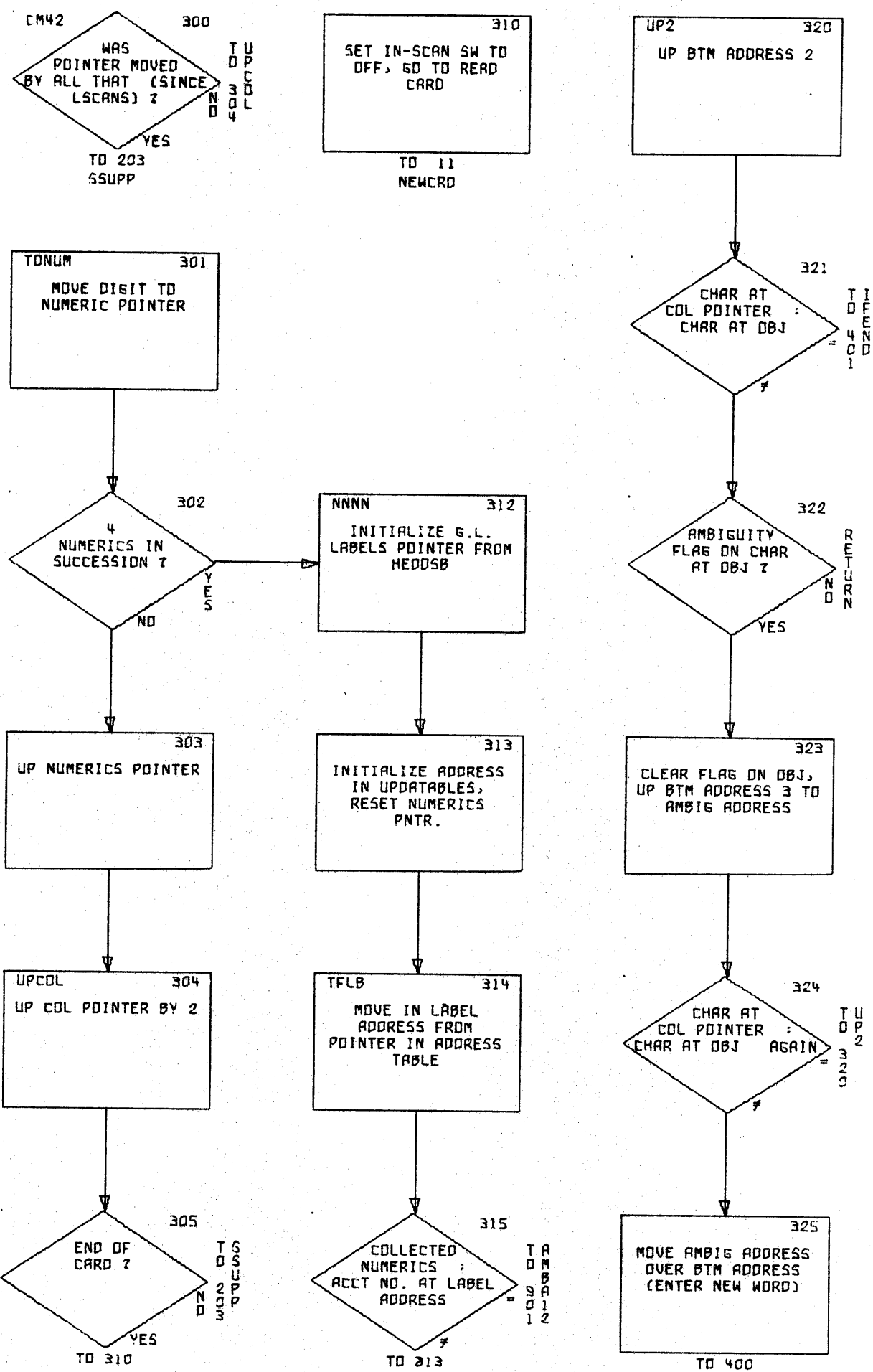
TC
CM42
300

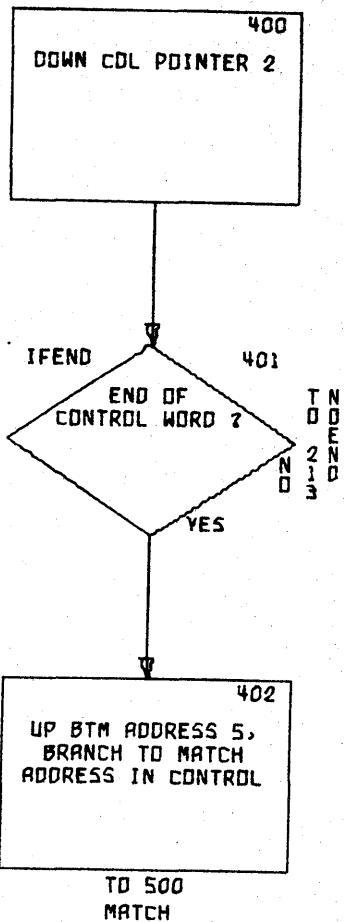
TOP COL
FOR

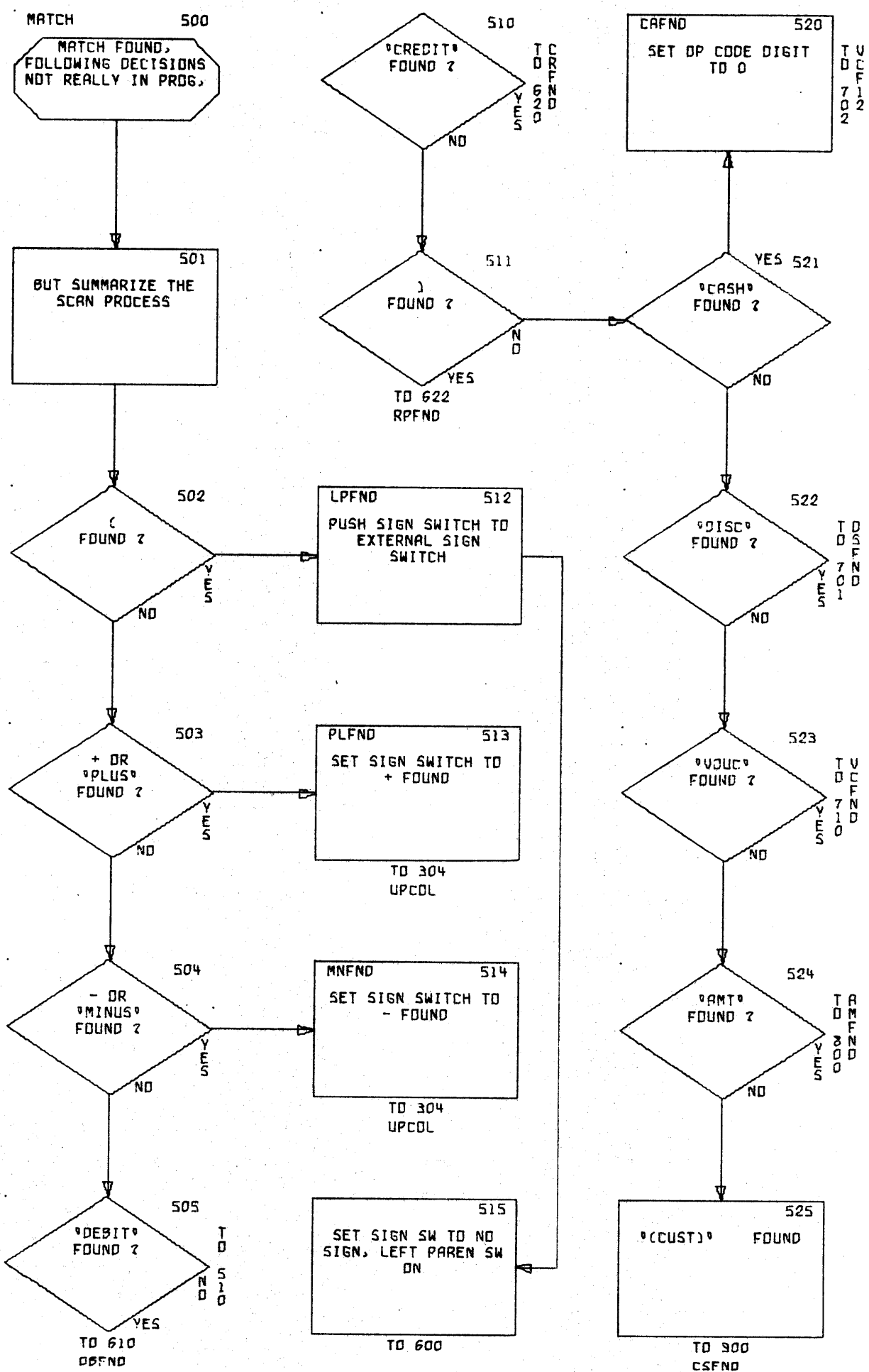
TRBACK
212

TD NUM
301

TD 320
UP2







600
 SET SCAN BTM
 ADDRESS FOR 'CUST'
 CONTRL, SNEAK BACK

TO 213
 NOEND

DBFND 610
 SET INDEX TO ZERO

CRFND 620
 SET INDEX TO LENGTH
 OF WISAL FIELD

601
 UP PHASE B ERRORS
 BY 1

TOXT 611
 NEW
 ROUTINE SW ON ?

621
 UP PHASE B ERRORS 1

60T036 602
 PUT END OF ROUTINE
 INDICATION IN CODE
 AREA, UP POINTER

612
 SET NEW ROUTINE SW
 OFF

RPFND 622
 LEFT
 PAREN FOUND SW
 ON ?

603
 CODE AREA
 EXCEEDED ?

TO OVERB
 SW 7
 2

SWELL 613
 SET SWS FOR 'DEBIT'
 OR 'CREDIT' FOUND

TO U
 403
 400

623
 SIGN
 SWITCH STILL
 AT SIGN FOUND
 STATUS ?

TO CLRSN
 7
 00

604
 SET SWS FOR END OF
 B

TO32 614
 STATUS
 SWS IN ORDER
 FOR NEW SENTENCE ?

624
 TO ERPANT,
 'PARENTHESIS
 ERROR'

605
 GO TO GETADJ TO
 READ AND LINK TO
 PHASE C

BEGINC

615
 TO ERPANT,
 'IMPROPER
 STATEMENT'

TO 621

625
 UP PHASE B ERRORS 1

TO 700
 CLRSN

CLRSN 700
SET SWS FOR END OF SENTENCE

TO 304
UPCOL

VCFND 710
SET DP CODE DIGIT TO GROUP MARK

TO 702
VCF12

DSFND 701
SET DP CODE DIGIT TO #

VCF36 711
SET MNEMONIC-FOUND SWITCH

720
SENTENCE ERROR ?

TO 304
UPCOL

VCF12 702
%AMT# FOUND PREVIOUSLY ?

RSAMT 712
RESET OBJECT SWITCH, AMOUNT SWITCH

721
MOVE DP CODE DIGIT AND ADDRESS TO CODE POINTER

703
SIGN PREVIOUS ?

TO 304
UPCOL

713
TAKE ALGEBRAIC PRODUCT OF SIGN, EXTERNAL SIGN

722
CODE AREA FILLED ?

TO 304
UPCOL

704
EXTERNAL SIGN PREVIOUS ?

TO 304
UPCOL

714
SET FLAG ON DP CODE DIGIT IF NEGATIVE PRODUCT

723
TO ERPRNT, %PRG EXCEEDS CORE CAPACITY AT THIS POINT*

705
G.L. ACCT NO. OR (CUST) PREVIOUS ?

TO 304
UPCOL

715
RESET SIGN SWITCH

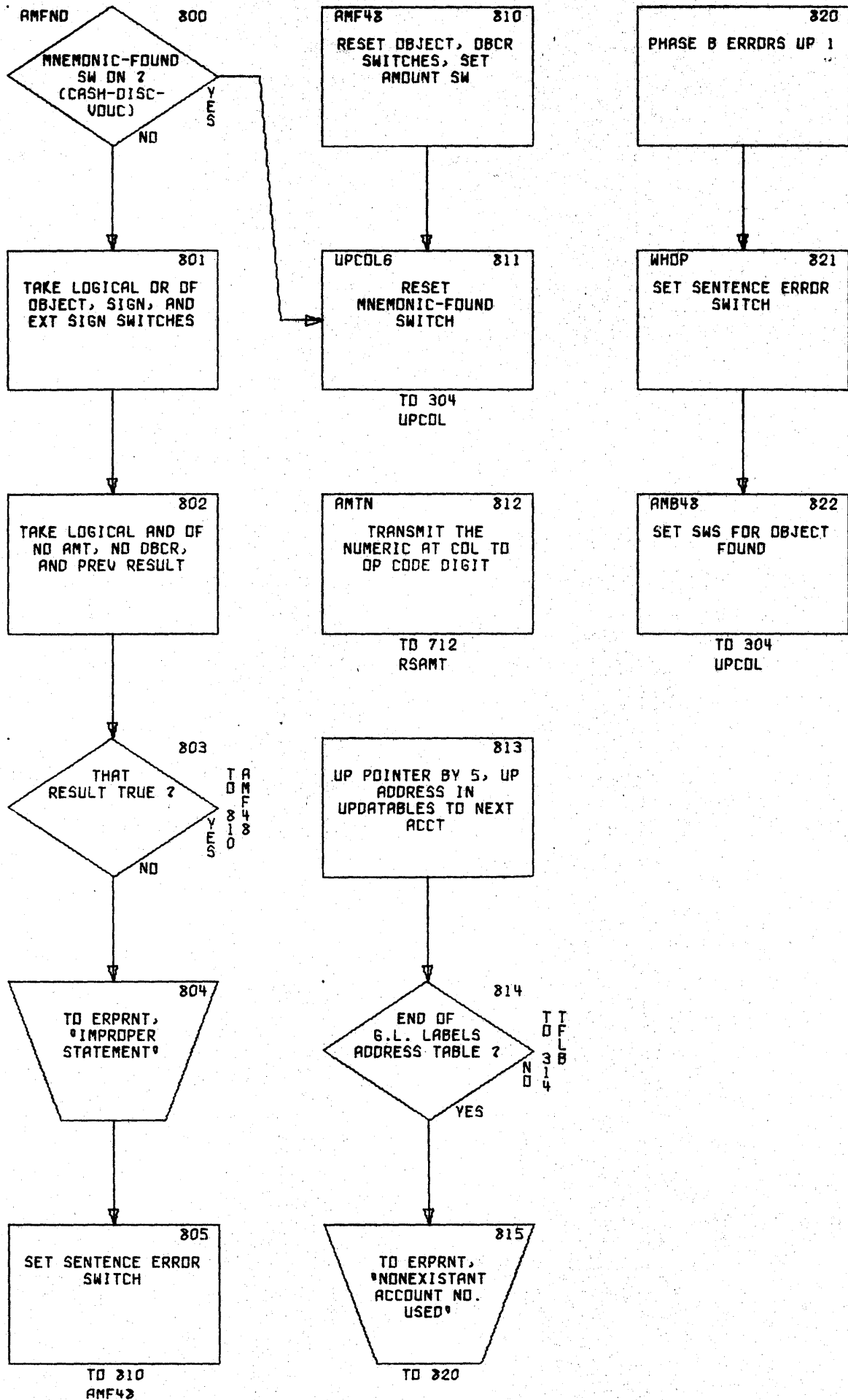
724
TO ERPRNT, *STUDENT PROG TERMINATED, JOB TERMINATED*

725
TO MONITOR

TO 711
VCF36

TO 720

EXIT



CSFND 900
SET UPDATABLES
ADDRESS TO ZERO

AMBA12 901
MOVE DBCR INDEX TO
OBJECT ADDRESS

AMBA 902
ADD UPDATABLES
ADDRESS TO OBJECT
ADDRESS

903
SWITCHES
IN ORDER FOR
OBJECT TO BE FOUND
?

TO ERPRNT
IMPROPER
STATEMENT

904
TO ERPRNT,
IMPROPER
STATEMENT

905
UP PHASE B ERRORS 1

TO 821
WHOP

BEGINC 0
 MOVE ADDR OF FIRST
 UPDATABLE ACCT
 FIELD TO TOSWAD

1
 DOWN TOSWAD BY
 LENGTH OF FIELD TO
 LAST TRAN CODED SW

2
 DOWN TOSWAD BY NO.
 OF TRANSACTIONS TO
 TRAN 'ZERO' SW

3
 GO TO GETADJ TO
 READ UPDATABLE
 BLOCK

4
 GO TO GETADJ TO
 READ
 TRANSACTIONS
 BLOCK AND LINK

LABCHK 5
 XREF
 CARD ?
 YES TO 120 FORTHC
 NO TO 10

10
 TITLE
 CARD ?
 YES TO 20
 NO TO 11

11
 LAST CARD
 INDICATOR ON ?
 YES TO 14
 NO TO 12

12
 'TITLE CARD
 MISSING'

13
 HALT, GO TO
 READ ON START
 TO 5 LABCHK

OUTC2 14
 SET INTERNAL LAST
 CARD SWITCH ON

OUTC3 15
 WAS THIS
 AN ADMIN RUN ?
 YES TO 114 NOTUCH
 NO TO 21

OUTC 20
 SCAN CARD, PLACE #
 AFTER LAST
 CHARACTER
 TO 15
 OUTC3

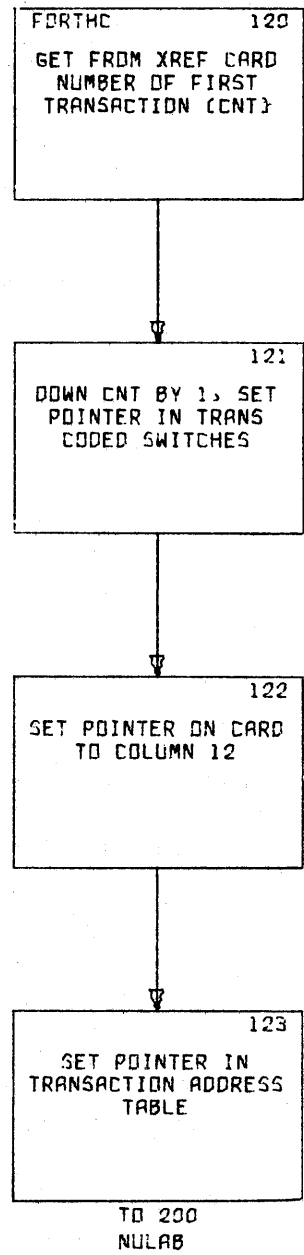
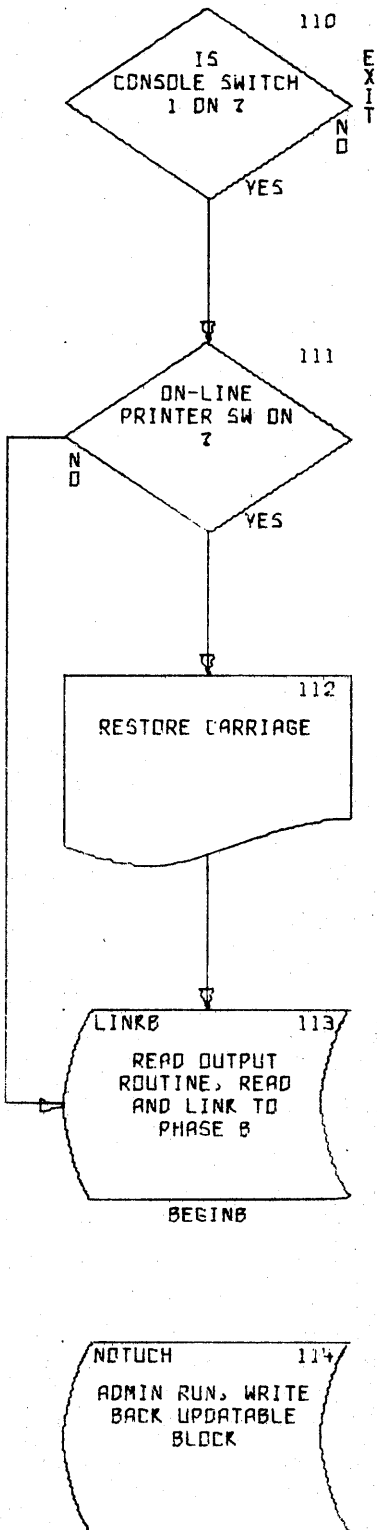
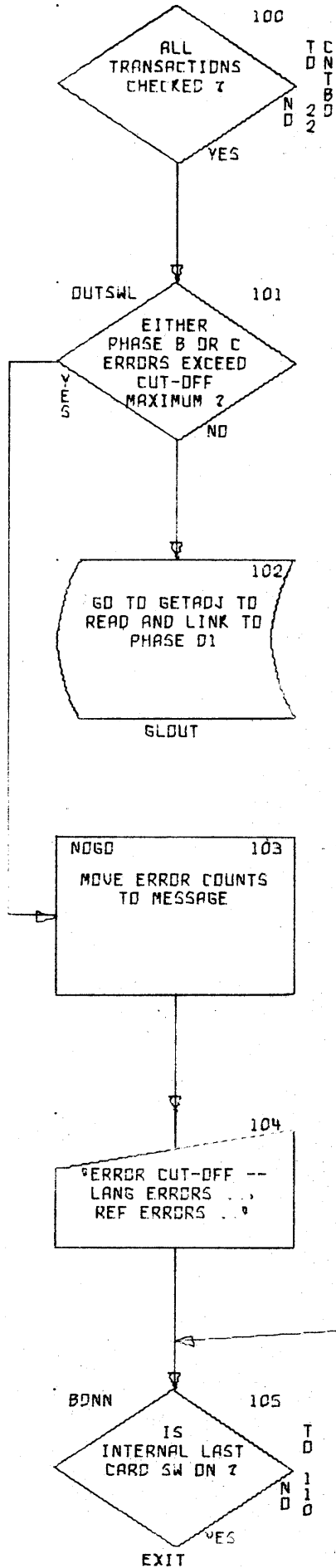
21
 INITIALIZE IN
 TRANS. CODED SWS TO
 TRANS. 1

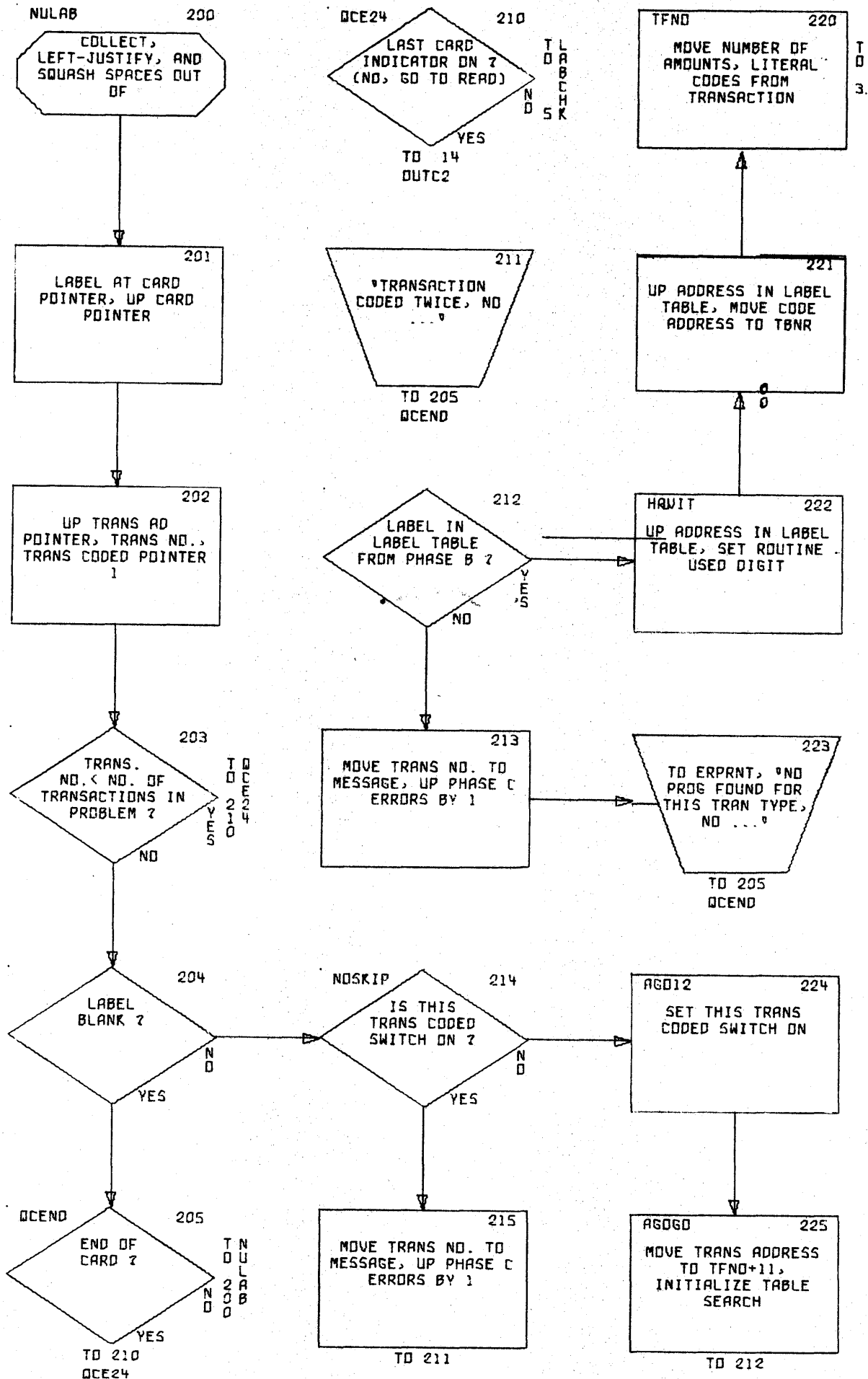
CNTBD 22
 TRANSACTION
 CODED ?
 YES TO 23
 NO TO 24

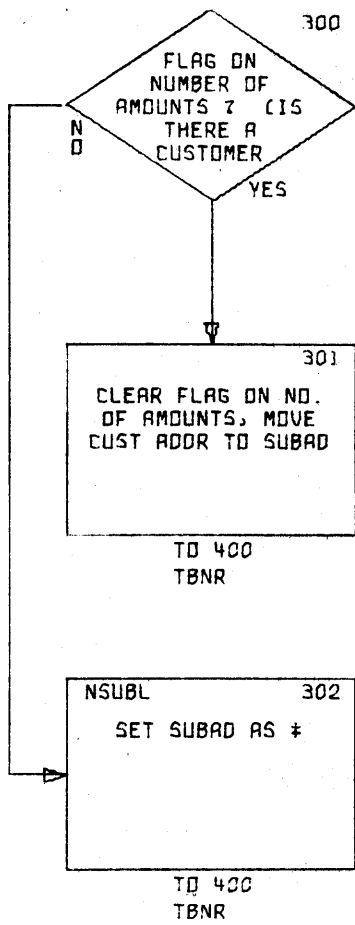
23
 MOVE TRANS. NO. TO
 MESSAGE, UP PHASE C
 ERRORS BY 1

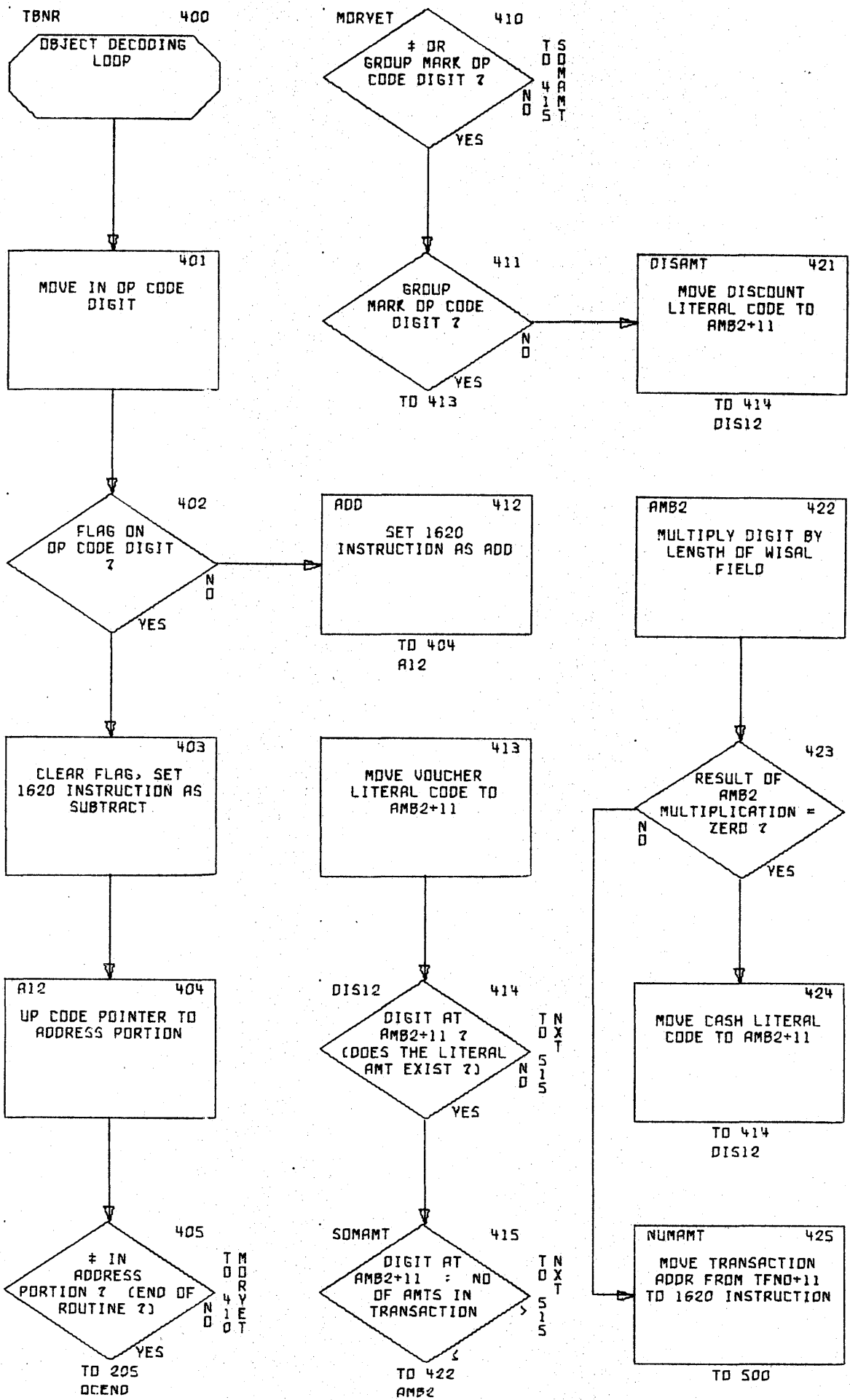
24
 TO ERPRNT, 'NO
 CODE PROVIDED
 FOR TRANS ...'

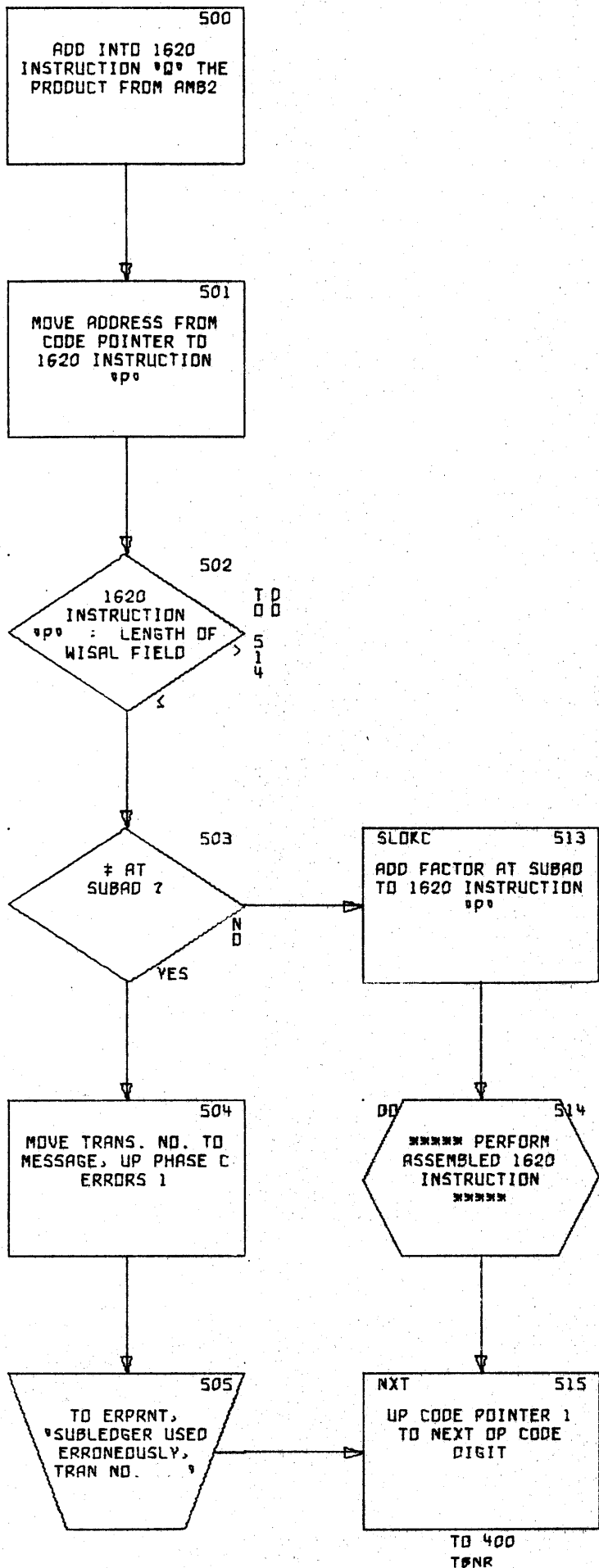
LPBD 25
 UP SWITCHES POINTER
 1, TRANS. NO. UP 1
 TO 100

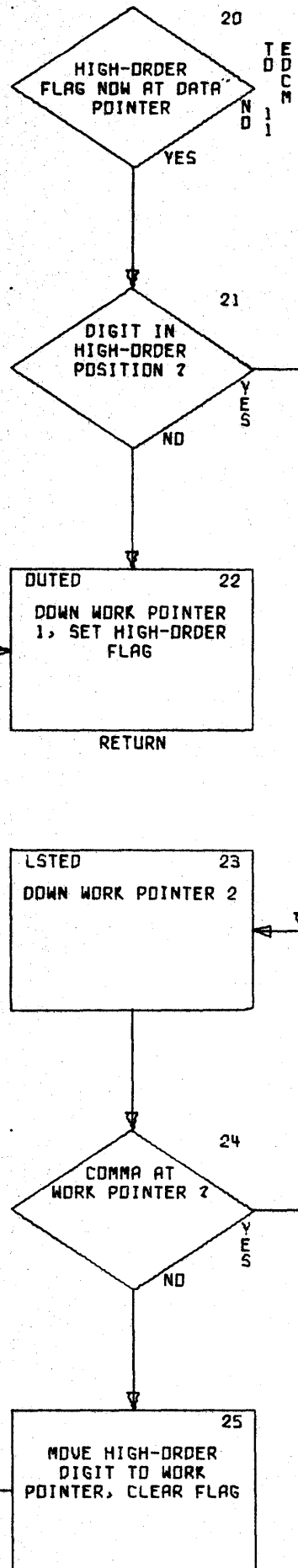
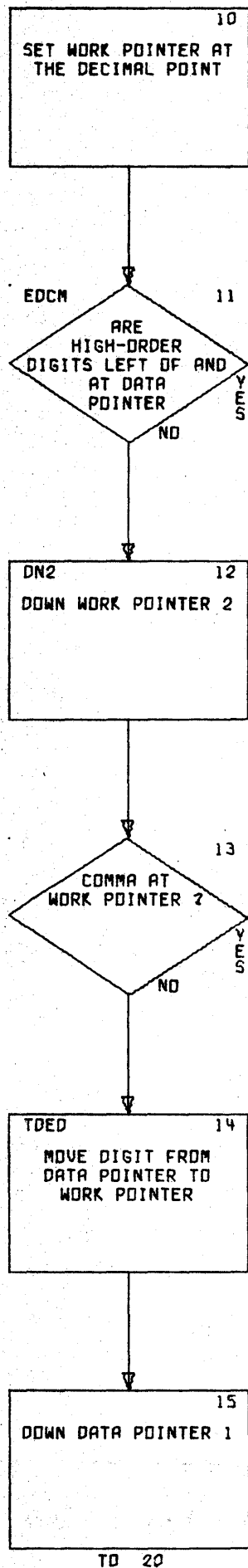
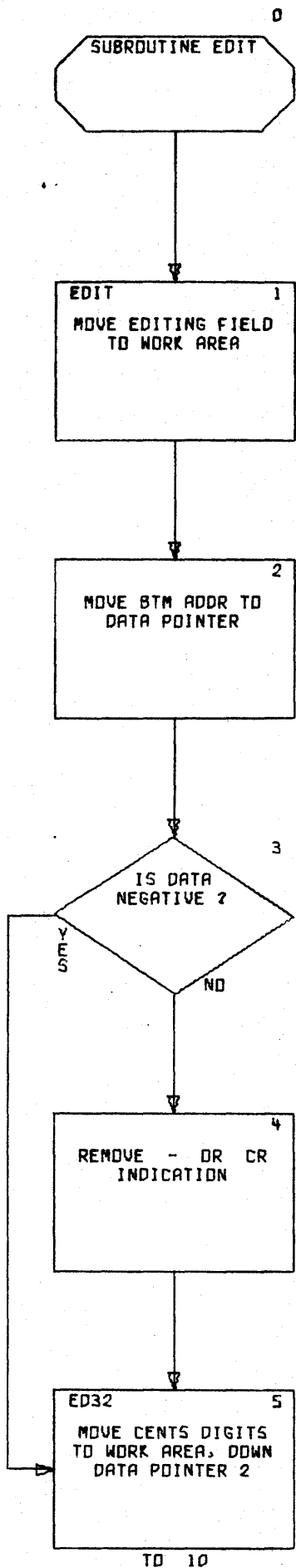


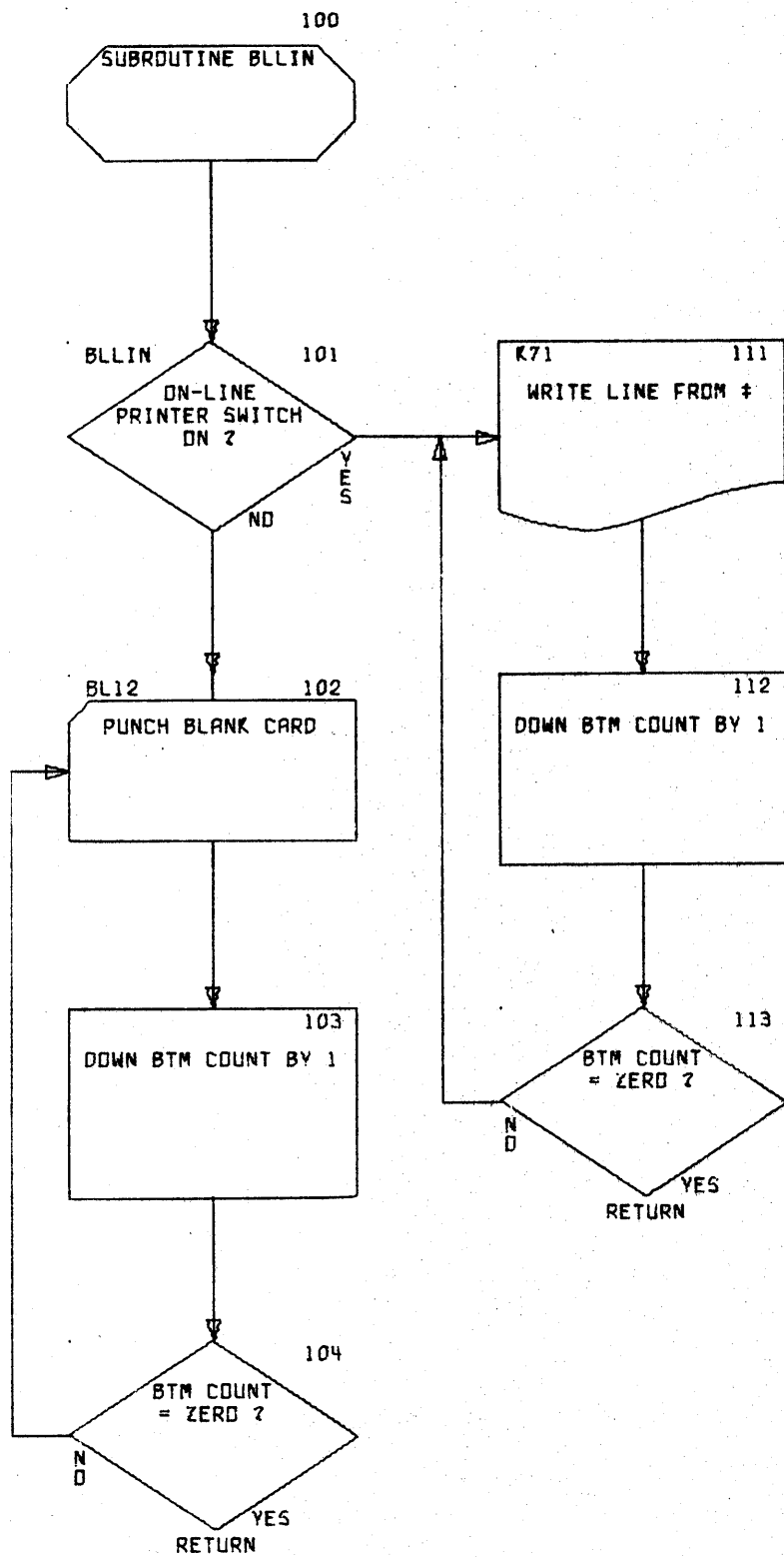


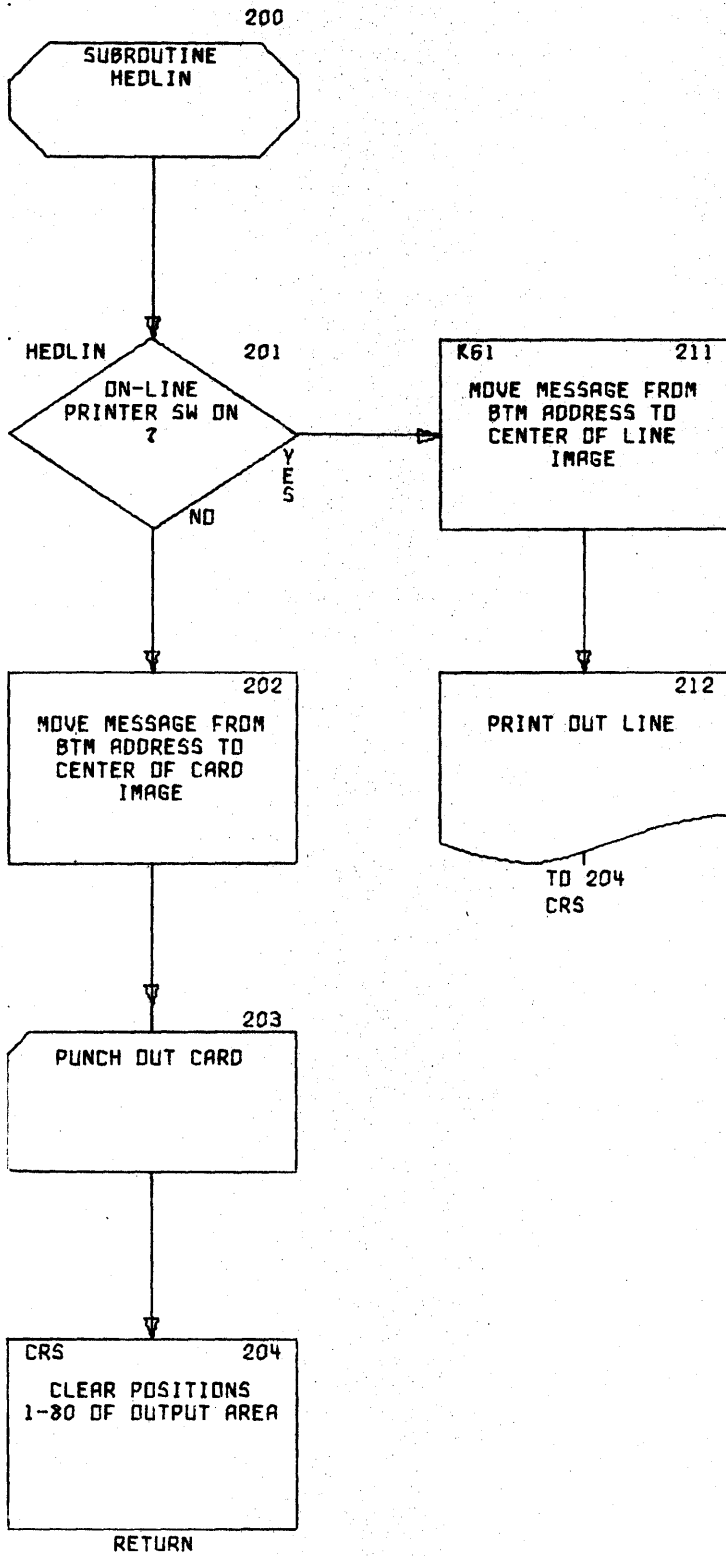


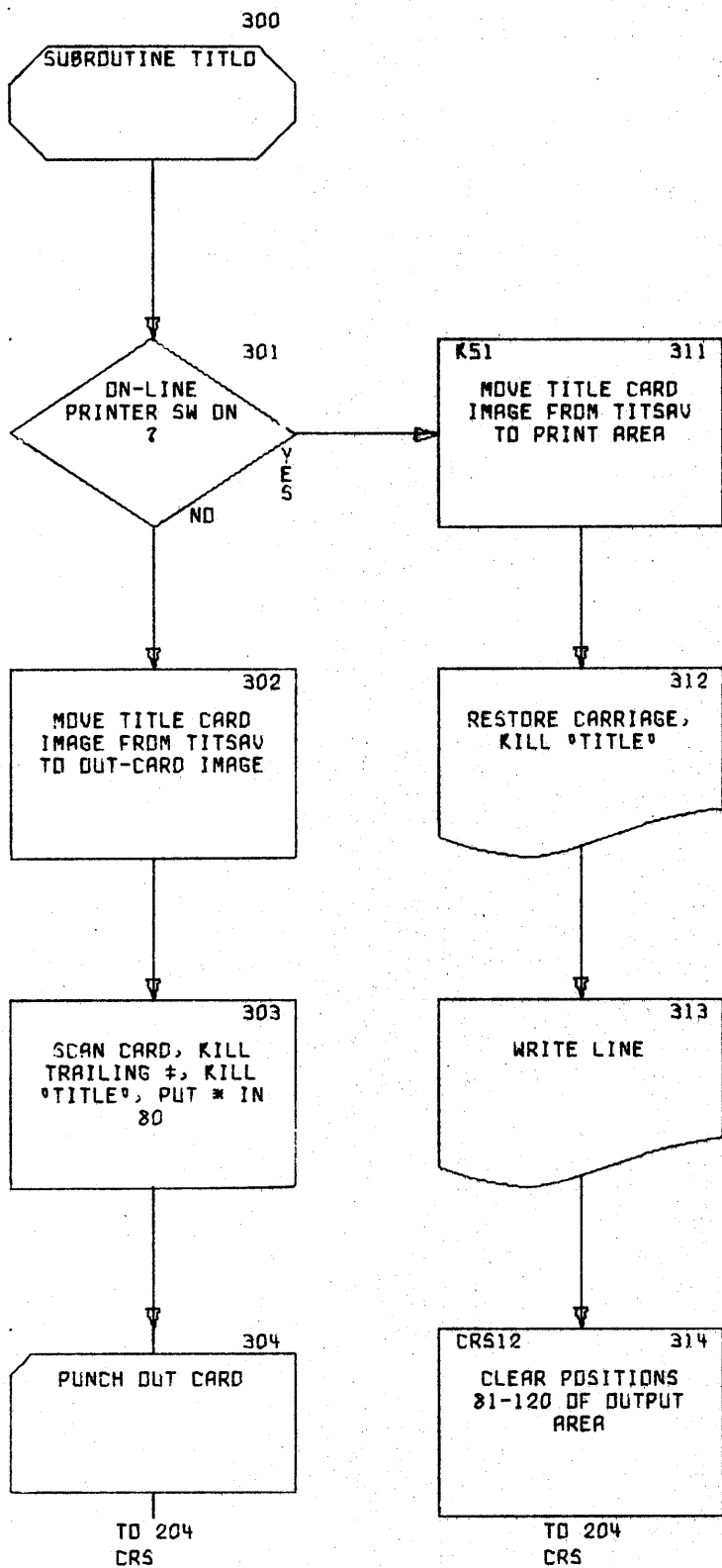


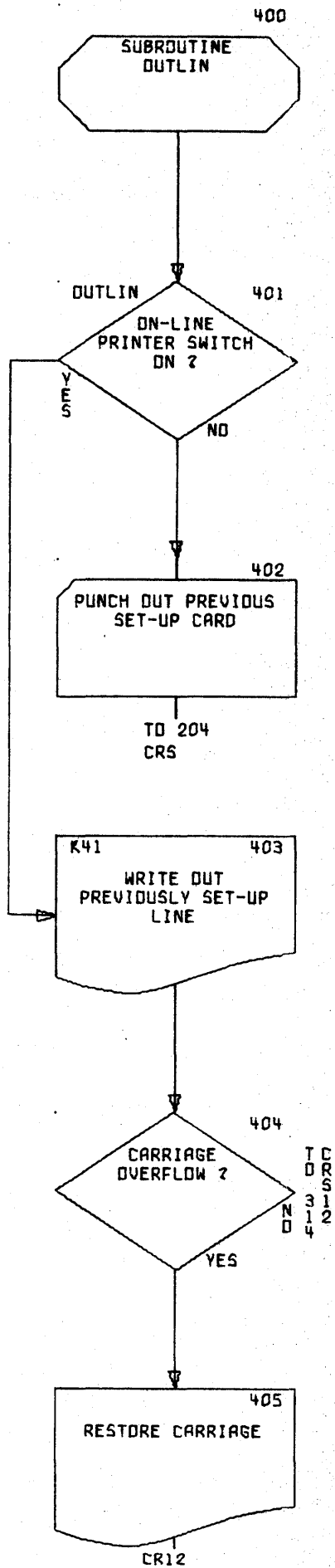


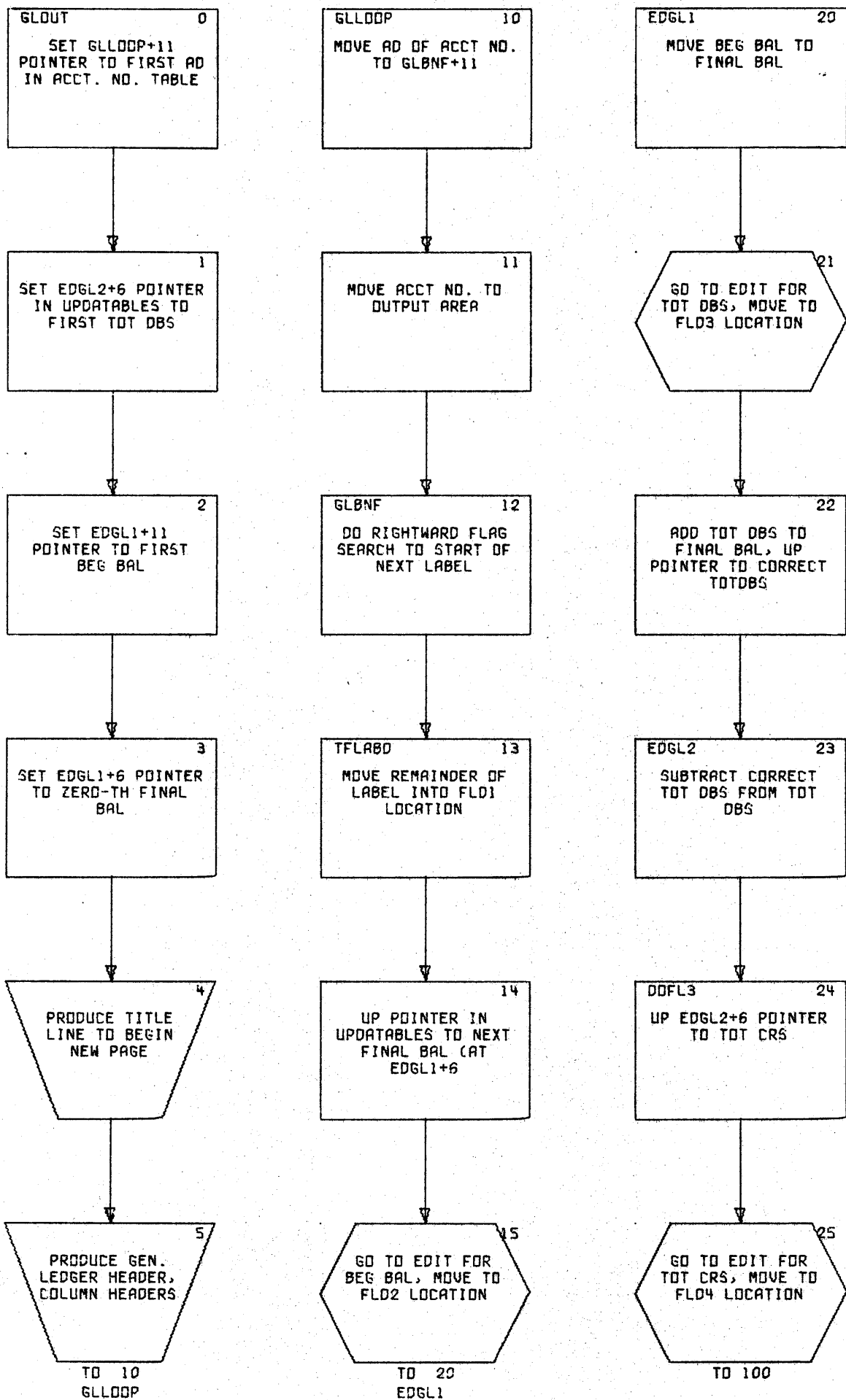


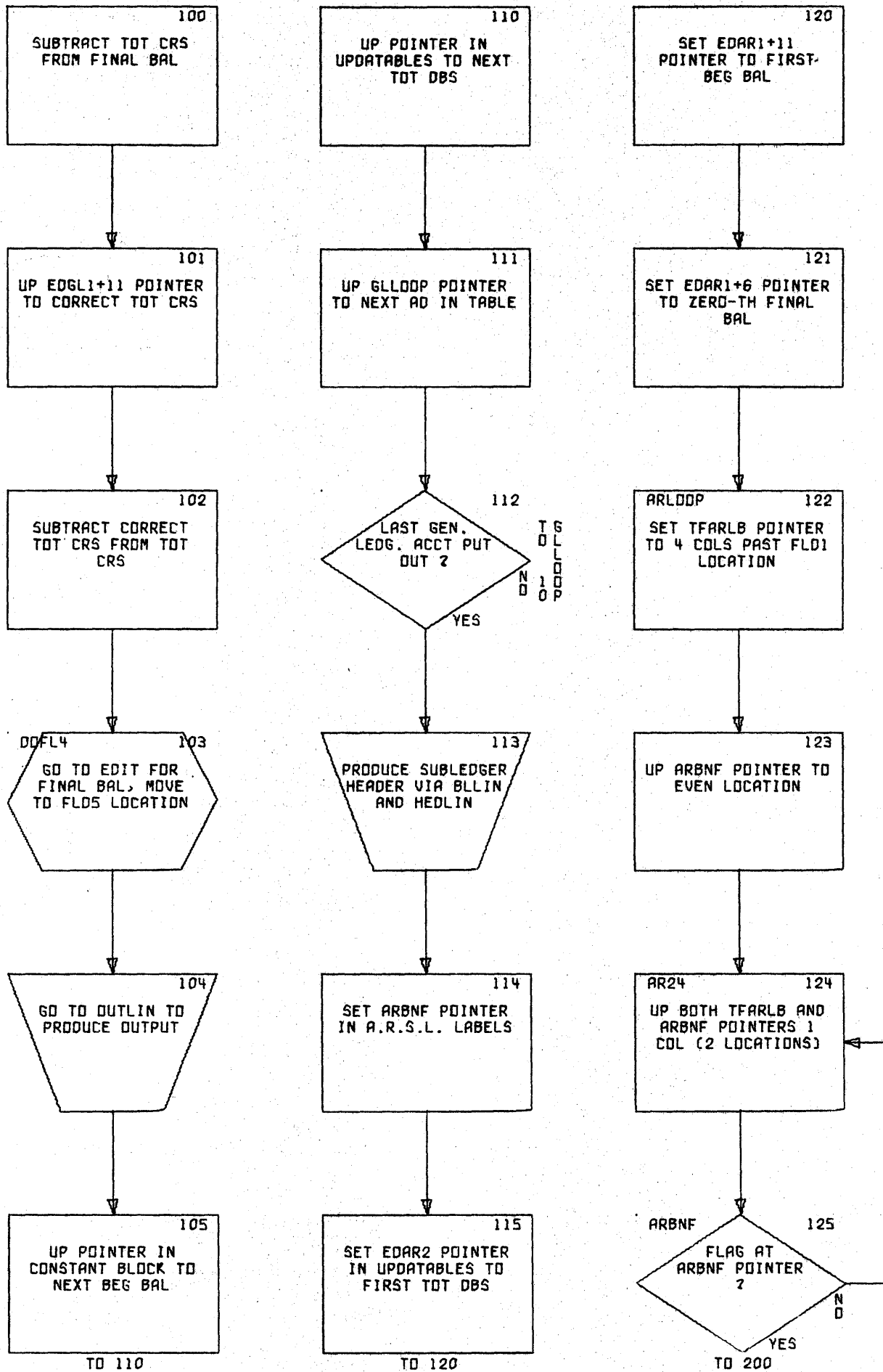












200
DOWN ARBNF POINTER
1 LOC. TO LAST
(ODD) POSITION

TFARLB 201
MOVE A.R. LABEL
FROM ARBNF TO
TFARLB POINTERS

202
UP EDAR1+6 POINTER
TO NEXT FINAL BAL

203
GO TO EDIT FOR
BEG BAL, MOVE TO
FLO2 LOCATION

204
REMAINDER OF
ARLOOP IS
EXACTLY SIMILAR
TO GLLOOP

205
EXCEPT THAT
TOTALS ARE TAKEN
OF EACH COLUMN

TO 210

210
LAST
SUBLEDGER
ACCOUNT PUT OUT ?
YES
NO
T
A
R
L
O
O
P
1
2
2

211
PUT OUT LINE OF
TOTALS

212
PUT OUT TITLE
LINE STARTING
NEW PAGE

213
PUT OUT INCOME
STATEMENT HEADER

214
LINK TO PHASE D2

BEGND2

BEGND2 0
 GO TO GETADJ TO
 READ I.S., B.S.
 LABELS BLOCK

1
 CHANGE EDIT
 FIELD TO - AT
 END

2
 SET TFMD2+11
 POINTER TO FLD1
 POSITION + 10
 CHARACTERS

3
 SET EDITS+11
 POINTER IN ADDR
 TABLE TO DOLLAR
 AMTS

4
 SET ISBNF POINTER
 TO START OF I.S.,
 B.S. LABELS

5
 ISLOOP
 UP ISBNF+11 POINTER
 3 TO EVEN POSITION
 IN LABELS

TO 10
 IS12

IS12 10
 UP ISBNF+11 POINTER
 2

11
 ISBNF
 FLAG AT
 ISBNF+11
 POINTER 2
 YES
 NO

12
 DOWN ISBNF+11 1 TO
 LAST (ODD) POSITION
 OF LABEL

13
 EDIS
 MOVE DOLLAR AMT
 FROM EDIS+11
 POINTER ADDRESS TO
 EDITQ

14
 CONSTRUCT ISBNF+11
 POINTER - 2 AT
 TFLBIS+11

15
 CONSTRUCT 79 -
 LABEL CODE AT
 MMIS+11

TO 20

20
 UP ISBNF+11 BY 2 TO
 LENGTH FIELD

21
 CONSTRUCT RIGHT COL
 ADDR OF LABEL IN
 OUTPUT AREA

22
 TFLBIS
 MOVE LABEL WITHOUT
 CODES TO
 CONSTRUCTED RIGHT
 COL ADDR

23
 MMIS
 PERFORM COMPUTED 60
 TO DN LABEL CODE TO
 VARIOUS ROUTNS

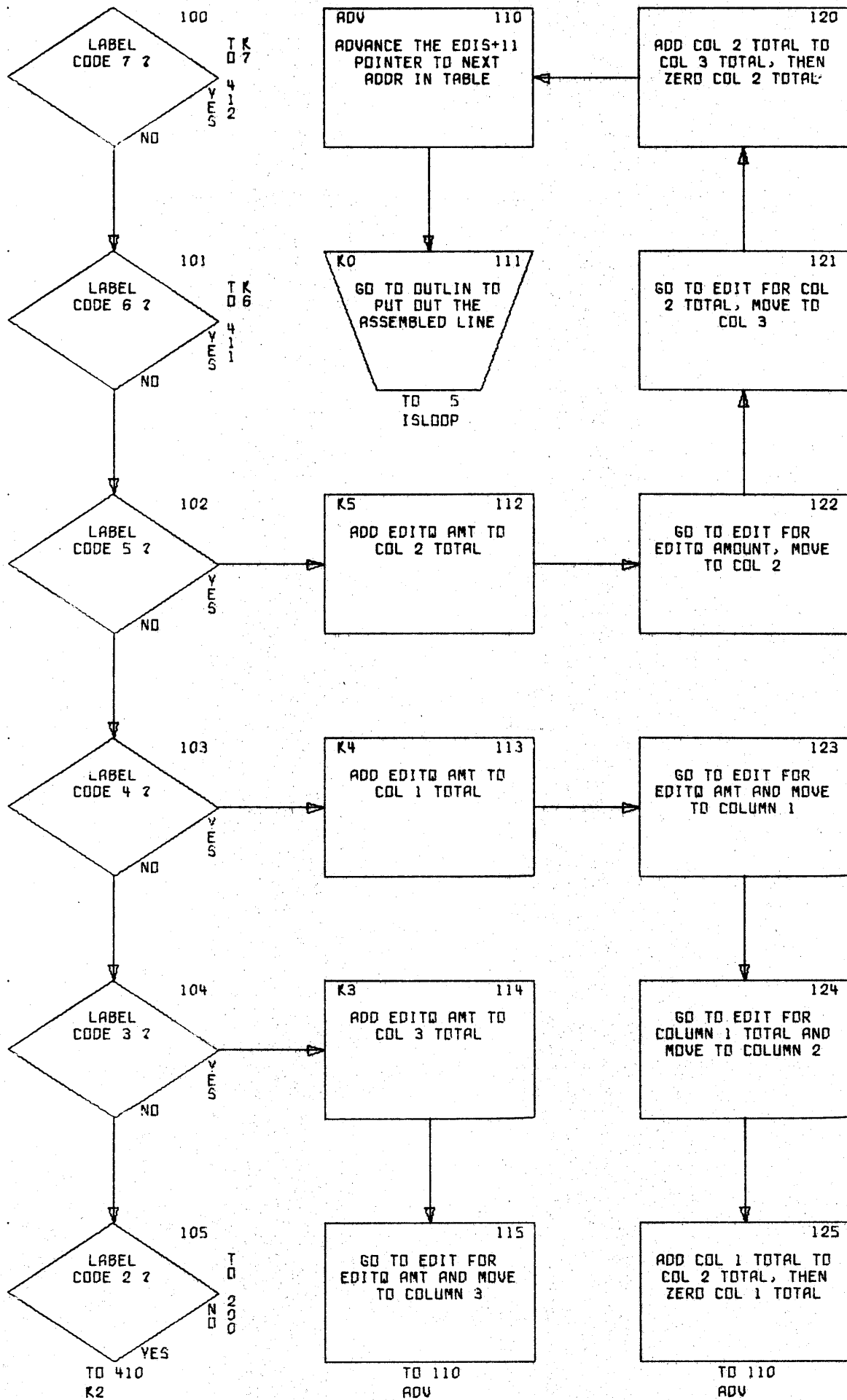
24
 LABEL
 CODE 9 ?
 YES
 NO

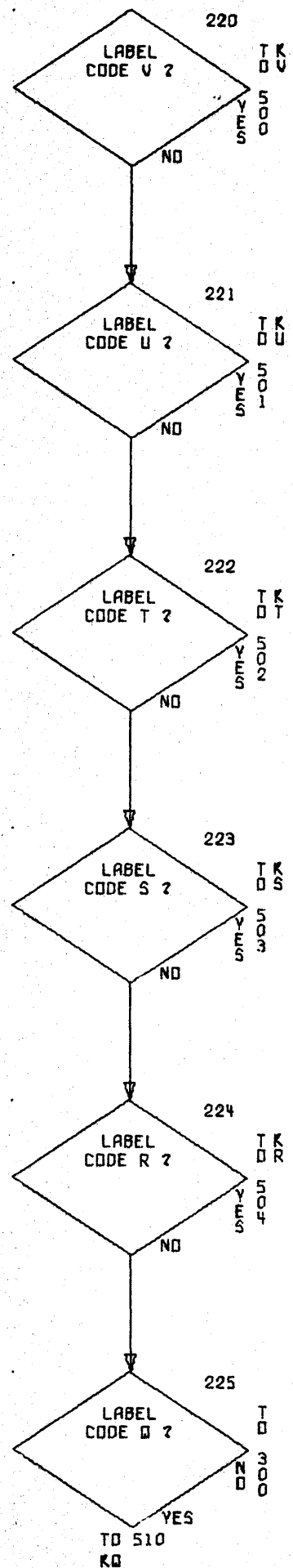
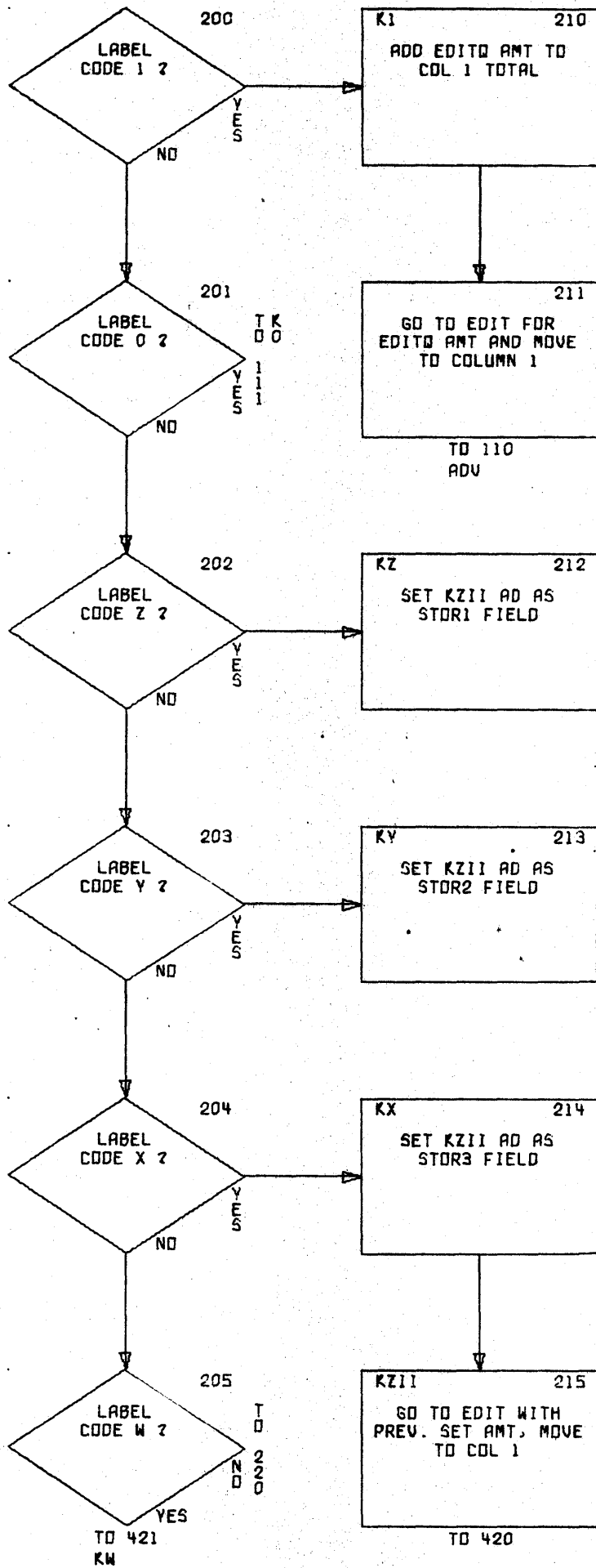
TK
 09
 4
 3
 2
 1

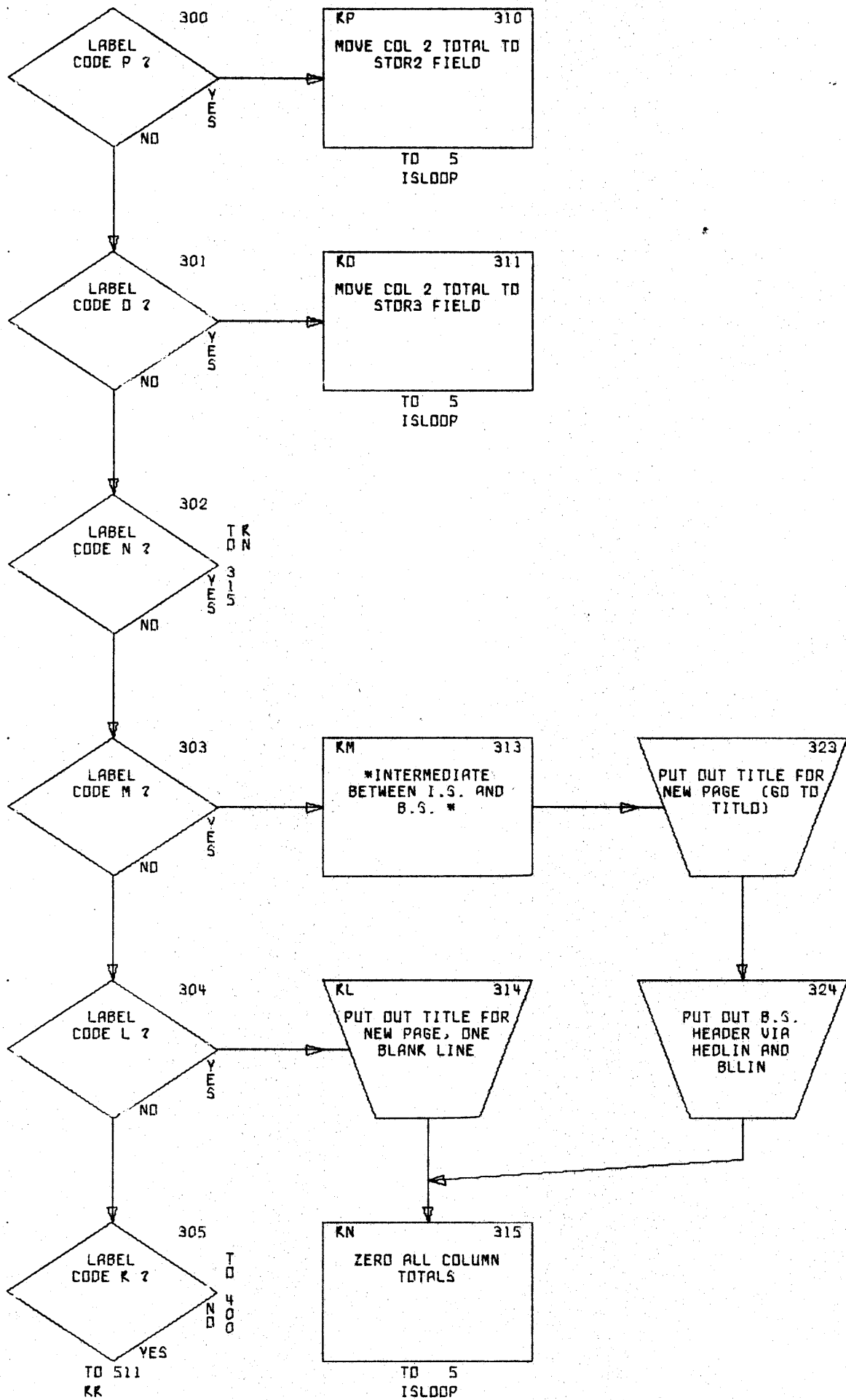
25
 LABEL
 CODE 8 ?
 YES
 NO

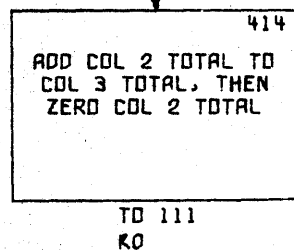
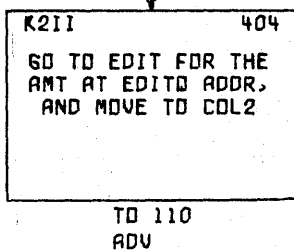
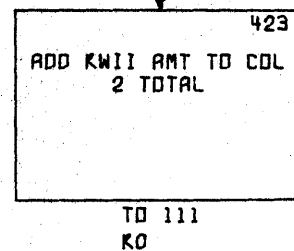
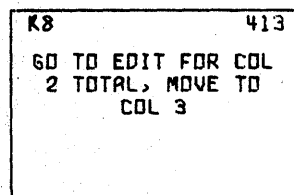
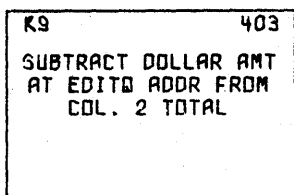
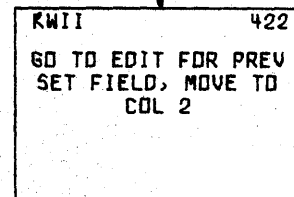
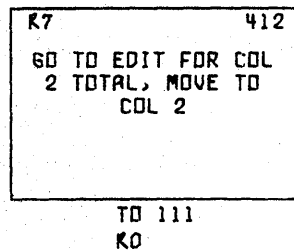
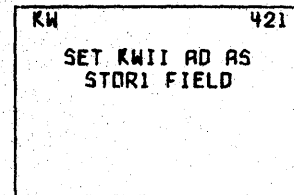
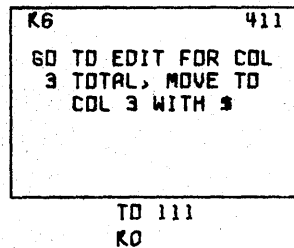
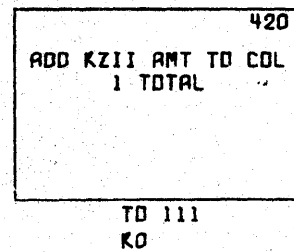
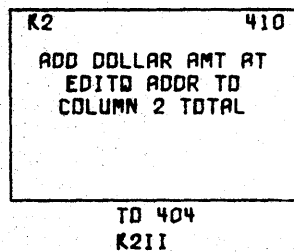
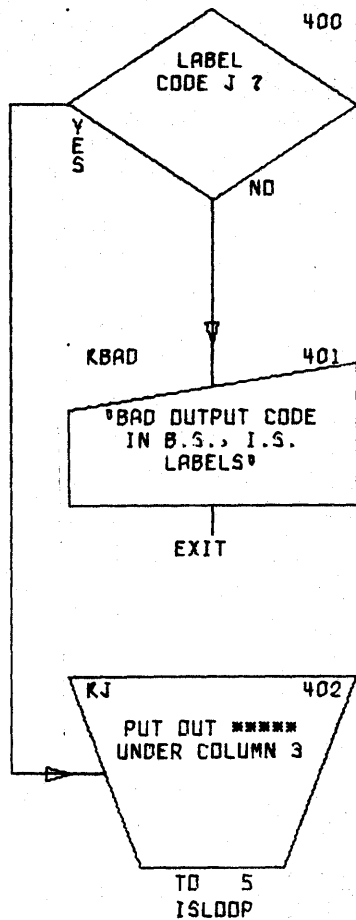
TD
 1000

TO 413
 K8









KV 500
SET KWII AD AS
STOR2 FIELD

TO 422
KWII

KU 501
SET KWII AD AS
STOR3 FIELD

TO 422
KWII

KT 502
MOVE COL 3 TOTAL TO
STOR1 FIELD (DO
NOT PRINT LINE)

TO 5
ISLOOP

KS 503
MOVE COL 3 TOTAL TO
STOR2 FIELD

TO 5
ISLOOP

KR 504
MOVE COL 3 TOTAL TO
STOR3 FIELD

TO 5
ISLOOP

KQ 510
MOVE COL 2 TOTAL TO
STOR1 FIELD

TO 5
ISLOOP

KK 511
* END OF BALANCE
SHEET *

512
PUT OUT *****
UNDER COLUMN 3,
FOUR BLANK
LINES

513
MODIFY HDLIN
MOVE-TO ADD UP
4 COLUMNS

514
ADD STOR3 FIELD TO
COL 3 TOTAL (ASSETS
TO LIABILITIES)

515
GO TO EDIT FOR SUM
IN COL3 TOTAL

TO 520

520
ASSETS-
LIABILITIES
SUM = ZERO

TOTAL
6000

521
MOVE EDITED ERROR
SUM, PRINT 'YOU
GODFED ...' MESSAGE

522
SEER
DID PHASE
B OR C ERRORS
OCCUR ?

TOTAL
4200

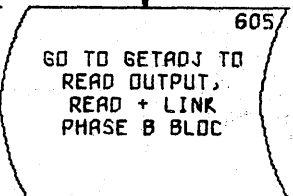
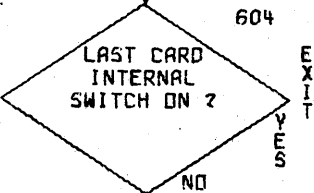
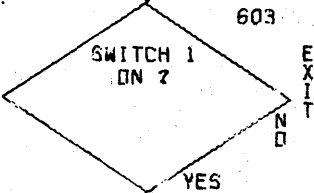
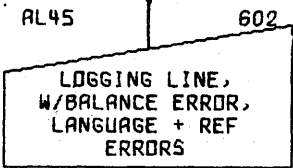
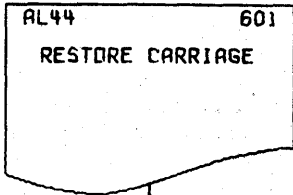
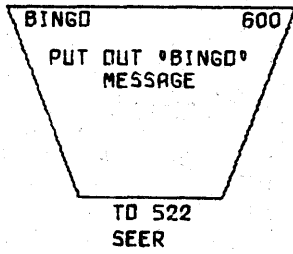
523
OUTNOT
PUT OUT 'BUT NOTE
PROGRAMMING
ERRORS ABOVE'

524
ALLOON
ON-LINE
PRINTER
SWITCH ON ?

TOTAL
601

525
PUNCH CARD WITH =
IN COL. 1

TO 602
AL45



BEGINB

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**JOB
**REQ WISAL
TITLE      SAMPLE COMPLETE SOLUTION
010020     CUSTOMER TRANSACTIONS.
010030 A1  CASH RECEIPTS ON ACCOUNT. DEBIT AC 1111 BY CASHAMT. DEBIT AC
010040     4113 BY DISCAMT. CREDIT AC 1115 BY (CASHAMT + DISCAMT).
010050     CREDIT SUBLED(CUST) BY (CASHAMT + DISCAMT).
010060 A2  CASH SALES AND SALES TAX. DEBIT AC 1111 BY CASHAMT. CREDIT
010070     AC 2118 BY AMT1. CREDIT AC 4111 BY (CASHAMT - AMT1).
010080 A3  CHARGE SALES. DEBIT AC 1115 BY AMT1. CREDIT AC 4111 BY AMT1.
010090     DEBIT SUBLED(CUST) BY AMT1.
010100 A4  SALES RETURNS. DEBIT AC 4112 BY AMT1. CREDIT AC 1115 BY AMT1.
010110     CREDIT SUBLED(CUST) BY AMT1.
010120     VOUCHERS.
010130 B1  RENT. DEBIT AC 7114 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.
010140 B2  FREIGHT-IN. DEBIT AC 5112 BY VOUCHAMT. CREDIT AC 2113 BY
010150     VOUCHAMT.
010160 B3  OFFICE SUPPLIES. DEBIT AC 7115 BY VOUCHAMT. CREDIT AC 2113 BY
010170     VOUCHAMT.
010180 B4  STORE SUPPLIES. DEBIT AC 6115 BY VOUCHAMT. CREDIT 2113 BY
010190     VOUCHAMT.
010200 B5  ADVERTISING. DEBIT AC 6112 BY VOUCHAMT. CREDIT AC 2113 BY
010210     VOUCHAMT.
010220 B6  MISCELLANEOUS SELLING. DEBIT AC 6117 BY VOUCHAMT. CREDIT AC
010230     2113 BY VOUCHAMT.
020010 B7  PREPAID INSURANCE. DEBIT AC 1120 BY VOUCHAMT. CREDIT AC 2113
020020     BY VOUCHAMT.
020030 B8  OFFICE EQUIPMENT. DEBIT AC 1313 BY VOUCHAMT. CREDIT AC 2113
020040     BY VOUCHAMT.
020050 B9  DELIVERY. DEBIT AC 6113 BY VOUCHAMT. CREDIT AC 2113 BY
020060     VOUCHAMT.
020070 B10 PETTY CASH. DEBIT AC 5112 BY AMT1. DEBIT AC 4112 BY AMT2.
020080     DEBIT AC 6117 BY AMT3. CREDIT AC 2113 BY VOUCHAMT.
020090 B11 MERCHANDISE PURCHASE. DEBIT AC 5111 BY VOUCHAMT. CREDIT AC
020100     2113 BY VOUCHAMT.
020110 B12 MISCELLANEOUS GENERAL EXPENSE. DEBIT AC 7123 BY VOUCHAMT.
020120     CREDIT AC 2113 BY VOUCHAMT.
020130 B13 UTILITIES EXPENSE. DEBIT AC 7117 BY VOUCHAMT. CREDIT AC 2113
020140     BY VOUCHAMT.
020150     CASH DISBURSEMENTS.
020160 C1  ISSUE CHECK. DEBIT AC 2113 BY (CASHAMT + DISCAMT). CREDIT AC
020170     1111 BY CASHAMT. CREDIT AC 5114 BY DISCAMT.
020180     CASH RECEIPTS.
020190 D1  ON NOTES. DEBIT AC 1111 BY CASHAMT. CREDIT AC 1113 BY
020200     (CASHAMT - AMT1). CREDIT AC 8111 BY AMT1.
020210 D2  DISCOUNTED NOTES. DEBIT AC 1111 BY CASHAMT. DEBIT AC 1121 BY

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020220     AMT1. CREDIT AC 2111 BY (CASHAMT + AMT1).
030010     MISCELLANEOUS
030020 E1  BUY EQUIPMENT WITH NOTE. DEBIT AC 1311 BY (AMT1 + VOUCHAMT).
030030     CREDIT AC 2113 BY VOUCHAMT. CREDIT AC 2111 BY AMT1.
030040 E2  PAY NOTE. DEBIT AC 2111 BY (VOUCHAMT - AMT1). DEBIT AC 9111
030050     BY AMT1. CREDIT AC 2113 BY VOUCHAMT.
030060 E3  RECEIVE NOTE. DEBIT AC 1113 BY AMT1. CREDIT AC 1115 BY AMT1.
030070     CREDIT SUBLED(CUST) BY AMT1.
030080 E4  RECEIVE CREDIT MEMO. DEBIT AC 2113 BY AMT1. CREDIT AC 5113 BY
030090     AMT1.
030100 E5  WRITE OFF BAD DEBT. DEBIT AC 1116 BY AMT1. CREDIT AC 1115 BY
030110     AMT1. CREDIT SUBLED(CUST) BY AMT1.
030120 E6  PURCHASE FIXTURES. DEBIT AC 1311 BY VOUCHAMT. CREDIT AC 2113
030130     BY VOUCHAMT. DEBIT AC 1312 BY AMT3. DEBIT AC 1311 BY
030140     (AMT2 - AMT3). CREDIT AC 1311 BY AMT2.
030150     ADJUSTMENTS.
030160 F1  ADJUST STORE SUPPLIES INVENTORY. DEBIT AC 6115 BY AMT1.
030170     CREDIT AC 1118 BY AMT1. DEBIT AC 1118 BY AMT2. CREDIT AC
030180     6115 BY AMT2.
030190 F2  ADJUST OFFICE SUPPLIES INVENTORY. DEBIT AC 7115 BY AMT1.
030200     CREDIT AC 1119 BY AMT1. DEBIT AC 1119 BY AMT2. CREDIT AC
030210     7115 BY AMT2.
030220 F3  INSURANCE. DEBIT AC 6116 BY AMT1. DEBIT AC 7118 BY AMT2.
030230     CREDIT AC 1120 BY (AMT1 + AMT2).
040010 F4  INTEREST ON NOTES RECEIVABLE. DEBIT AC 1114 BY AMT1. CREDIT
040020     AC 8111 BY AMT1.
040030 F5  PREPAID INTEREST ON NOTES PAYABLE. DEBIT AC 9111 BY AMT1.
040040     CREDIT AC 1121 BY AMT1.
040050 F6  ACCRUE SALARIES. DEBIT AC 6111 BY AMT1. DEBIT AC 7111 BY
040060     AMT2. CREDIT AC 2119 BY (AMT1 + AMT2).
040070 F7  SALES TAX. DEBIT AC 6117 BY AMT1. CREDIT AC 2118 BY AMT1.
040080 F8  BAD DEBTS. DEBIT AC 7119 BY AMT1. CREDIT AC 1116 BY AMT1.
040090 F9  ADJUST INVENTORIES. DEBIT AC 3115 BY AMT1. CREDIT AC 1117 BY
040100     AMT1. DEBIT AC 1117 BY AMT2. CREDIT AC 3115 BY AMT2.
040110 F10 INTEREST ON NOTES PAYABLE. DEBIT AC 9111 BY AMT1. CREDIT AC
040120     2112 BY AMT1.
040130 F11 DEPRECIATION. DEBIT AC 6114 BY AMT1. DEBIT AC 7116 BY AMT2.
040140     CREDIT AC 1312 BY AMT1. CREDIT AC 1314 BY AMT2.
XREF      001C1 B1 C1 A1 A1 C1 C1 C1 A3
XREF      010A3 A1 A1 A1 E1 C1 B2 C1 B11
XREF      019B11 C1 A3 A1 A1 A2 A1 B2 E2
XREF      028C1 C1 C1 E3 A3 A3 E3 E4 D1 A1 A1
XREF      039B3 B11 E3 C1 C1 A3 B4 B12 C1
XREF      048C1 A3 A3 E2 B5 B6 C1 C1 C1
XREF      058A4 A2 B2 C1 D1 B7 B6
XREF      065B5 C1 C1 A3 A1 D2 E5 E6

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XREF	073C1	C1	A3	A1	A1	A1	A4	A2		0091
XREF	081E4	A1	A3	B2	C1	B11	B8	C1		0092
XREF	089C1	B5	C1	B11	B11	A4	A3	A3	C1	0093
XREF	098C1	C1	A2	A1	B11	B4	B13	B13	B2	0094
XREF	10789	B10	C1	C1	C1	C1	C1	A2		0095
XREF	115F9	F1	F2	F3	F4	F10	F5	F6	F7 F8 F11	0096

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TITLE COMPLETE SAMPLE SOLUTION

010020 CUSTOMER TRANSACTIONS.

010030 A1 CASH RECEIPTS ON ACCOUNT. DEBIT AC 1111 BY CASHAMT. DEBIT AC 4113 BY DISCAMT. CREDIT AC 1115 BY %CASHAMT & DISCAMT.

010040 CREDIT SUBLED&CUSTD BY %CASHAMT & DISCAMT.

010050 CREDIT SUBLED&CUSTD BY %CASHAMT & DISCAMT.

010060 A2 CASH SALES AND SALES TAX. DEBIT AC 1111 BY CASHAMT. CREDIT AC 2118 BY AMT1. CREDIT AC 4111 BY %CASHAMT - AMT1.

010070 CHARGE SALES. DEBIT AC 1115 BY AMT1. CREDIT AC 4111 BY AMT1.

010080 A3 DEBIT SUPLED&CUSTD BY AMT1.

010090 SALES RETURNS. DEBIT AC 4112 BY AMT1. CREDIT AC 1115 BY AMT1.

010100 A4 CREDIT SUBLED&CUSTD BY AMT1.

010110 VOUCHERS.

010120 RENT. DEBIT AC 7114 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010130 B1 FREIGHT-IN. DEBIT AC 5112 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010140 B2 OFFICE SUPPLIES. DEBIT AC 7115 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010150 STORE SUPPLIES. DEBIT AC 6115 BY VOUCHAMT. CREDIT 2113 BY VOUCHAMT.

010160 B3 ADVERTISING. DEBIT AC 6112 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010170 MISCELLANEOUS SELLING. DEBIT AC 6117 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010180 B4 PREPAID INSURANCE. DEBIT AC 1120 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010190 OFFICE EQUIPMENT. DEBIT AC 1313 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010200 B5 DELIVERY. DEBIT AC 6113 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010210 PETTY CASH. DEBIT AC 5112 BY AMT1. DEBIT AC 4112 BY AMT2. DEBIT AC 5117 BY AMT3. CREDIT AC 2113 BY VOUCHAMT.

010220 B6 MERCHANDISE PURCHASE. DEBIT AC 5111 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

010230 MISCELLANEOUS GENERAL EXPENSE. DEBIT AC 7123 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

020010 B7 UTILITIES EXPENSE. DEBIT AC 7117 BY VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT.

020020 CASH DISBURSEMENTS.

020030 C1 ISSUE CHECK. DEBIT AC 2113 BY %CASHAMT & DISCAMT. CREDIT AC 1111 BY CASHAMT. CREDIT AC 5114 BY DISCAMT.

020040 CASH RECEIPTS.

020050 D1 ON NOTES. DEBIT AC 1111 BY CASHAMT. CREDIT AC 1113 BY %CASHAMT - AMT1. CREDIT AC 8111 BY AMT1.

020060 D2 DISCOUNTED NOTES. DEBIT AC 1111 BY CASHAMT. DEBIT AC 1121 BY AMT1. CREDIT AC 2111 BY %CASHAMT & AMT1.

020070 MISCELLANEOUS

030010 E1 BUY EQUIPMENT WITH NOTE. DEBIT AC 1311 BY %AMT1 & VOUCHAMT. CREDIT AC 2113 BY VOUCHAMT. CREDIT AC 2111 BY AMT1.

030020 E2 PAY NOTE. DEBIT AC 2111 BY %VOUCHAMT - AMT1. DEBIT AC 9111 BY AMT1. CREDIT AC 2113 BY VOUCHAMT.

030030 E3 RECEIVE NOTE. DEBIT AC 1113 BY AMT1. CREDIT AC 1115 BY AMT1. CREDIT SUBLED&CUSTD BY AMT1.

030040 E4 RECEIVE CREDIT MEMO. DEBIT AC 2113 BY AMT1. CREDIT AC 5113 BY AMT1.

030050 E5 WRITE OFF BAD DEBT. DEBIT AC 1116 BY AMT1. CREDIT AC 1115 BY AMT1. CREDIT SUBLED&CUSTD BY AMT1.

030060 E6 PURCHASE FIXTURES. DEBIT AC 1311 BY VOUCHAMT. CREDIT AC 2113

030130 BY VOUCHER, DEBIT AC 1312 BY AMT3, DEBIT AC 1311 BY
 030140 AMT2 - AMT1, CREDIT AC 1311 BY AMT2.
 030150 ADJUSTMENTS.
 030160 F1 ADJUST STORE SUPPLIES INVENTORY, DEBIT AC 6115 BY AMT1.
 030170 CREDIT AC 1118 BY AMT1, DEBIT AC 1118 BY AMT2, CREDIT AC
 030180 6115 BY AMT2.
 030190 F2 ADJUST OFFICE SUPPLIES INVENTORY, DEBIT AC 7115 BY AMT1.
 030200 CREDIT AC 1119 BY AMT1, DEBIT AC 1119 BY AMT2, CREDIT AC
 030210 7115 BY AMT2.
 030220 F3 INSURANCE, DEBIT AC 6116 BY AMT1, DEBIT AC 7118 BY AMT2.
 030230 CREDIT AC 1120 BY AMT1 & AMT2.
 040010 F4 INTEREST ON NOTES RECEIVABLE, DEBIT AC 1114 BY AMT1, CREDIT
 040020 AC 8111 BY AMT1.
 040030 F5 PREPAID INTEREST ON NOTES PAYABLE, DEBIT AC 9111 BY AMT1,
 040040 CREDIT AC 1121 BY AMT1.
 040050 F6 ACCRUE SALARIES, DEBIT AC 6111 BY AMT1, DEBIT AC 7111 BY
 040060 AMT2, CREDIT AC 2117 BY AMT1 & AMT2.
 040070 F7 SALES TAX, DEBIT AC 6117 BY AMT1, CREDIT AC 2118 BY AMT1.
 040080 F8 BAD DEBTS, DEBIT AC 7119 BY AMT1, CREDIT AC 1116 BY AMT1.
 040090 F9 ADJUST INVENTORIES, DEBIT AC 3115 BY AMT1, CREDIT AC 1117 BY
 040100 AMT1, DEBIT AC 1117 BY AMT2, CREDIT AC 3115 BY AMT2.
 040110 F10 INTEREST ON NOTES PAYABLE, DEBIT AC 9111 BY AMT1, CREDIT AC
 040120 2112 BY AMT1.
 040130 F11 DEPRECIATION, DEBIT AC 6114 BY AMT1, DEBIT AC 7116 BY AMT2,
 040140 CREDIT AC 1312 BY AMT1, CREDIT AC 1314 BY AMT2.
 XREF 001C1 B1 C1 A1 A1 C1 C1 C1 A3
 XREF 010A3 A1 A1 A1 E1 C1 E2 C1 B11
 XREF 019B11 C1 A3 A1 A1 A2 A1 E2 E2
 XREF 02M01 C1 C1 E3 A3 F3 E6 D1 A1 A1
 XREF 039B3 B11 E3 C1 C1 A3 A4 B12 C1 A1
 XREF 04M01 A3 A3 E2 B5 B6 C1 C1 C1 C1
 XREF 05B04 A2 B2 C1 B1 B2 E5 E6
 XREF 06B011 C1 C1 A3 A1 A1 A4 A2
 XREF 073C1 C1 A3 A1 A1 A1 A1 A1
 XREF 081F4 A1 A3 B2 C1 B1 B6 C1
 XREF 089C1 B5 C1 B11 B11 A4 A3 A3 C1
 XREF 09M01 C1 A2 A1 B11 B4 B13 B13 B2
 XREF 107B9 B10 C1 C1 C1 C1 C1 A2
 XREF 119F0 F1 F2 F3 F4 F10 F5 F6 F7 F8 F11
 TITLE

TITLE COMPLETE SAMPLE SOLUTION
 010020 CUSTOMER TRANSACTIONS.
 010030 A1 CASH RECEIPTS ON ACCOUNT, DEBIT AC 1111 BY CASHAMT, DEBIT AC
 010040 4113 BY DISCAMT, CREDIT AC 1115 BY CASHAMT & DISCAMT.
 010050 CREDIT SUBLED&CUSTM BY CASHAMT & DISCAMT.
 010060 A2 CASH SALES AND SALES TAX, DEBIT AC 1111 BY CASHAMT, CREDIT
 010070 AC 2118 BY AMT1, CREDIT AC 4111 BY CASHAMT - AMT1.
 010080 A3 CHARGE SALES, DEBIT AC 1115 BY AMT1, CREDIT AC 4111 BY AMT1.
 010090 CREDIT SUBLED&CUSTM BY AMT1.
 010100 A4 SALES RETURNS, DEBIT AC 4112 BY AMT1, CREDIT AC 1115 BY AMT1,
 010110 CREDIT SUBLED&CUSTM BY AMT1.
 010120 VOUCHERS.
 010130 B1 REAT, DEBIT AC 7114 BY VOUCHAMT, CREDIT AC 2113 BY VOUCHAMT.
 010140 B2 FREIGHT-IN, DEBIT AC 5112 BY VOUCHAMT, CREDIT AC 2113 BY
 010150 VOUCHAMT.
 010160 A3 OFFICE SUPPLIES, DEBIT AC 7115 BY VOUCHAMT, CREDIT AC 2113 BY
 010170 VOUCHAMT.
 010180 B4 STORE SUPPLIES, DEBIT AC 6115 BY VOUCHAMT, CREDIT 2113 BY
 010190 VOUCHAMT.
 010200 B5 ADVERTISING, DEBIT AC 6112 BY VOUCHAMT, CREDIT AC 2113 BY
 010210 VOUCHAMT.
 010220 B6 MISCELLANEOUS SELLING, DEBIT AC 6117 BY VOUCHAMT, CREDIT AC
 010230 2113 BY VOUCHAMT.
 020010 R7 PREPAID INSURANCE, DEBIT AC 1120 BY VOUCHAMT, CREDIT AC 2113
 020020 BY VOUCHAMT.
 020030 B8 OFFICE EQUIPMENT, DEBIT AC 1313 BY VOUCHAMT, CREDIT AC 2113
 020040 BY VOUCHAMT.
 020050 B9 DELIVERY, DEBIT AC 6113 BY VOUCHAMT, CREDIT AC 2113 BY
 020060 VOUCHAMT.
 020070 B10 PETTY CASH, DEBIT AC 5112 BY AMT1, DEBIT AC 4112 BY AMT2,
 020080 DEBIT AC 6117 BY AMT3, CREDIT AC 2113 BY VOUCHAMT.
 020090 H11 MERCHANDISE PURCHASE, DEBIT AC 5111 BY VOUCHAMT, CREDIT AC
 020100 2113 BY VOUCHAMT.
 020110 H12 MISCELLANEOUS GENERAL EXPENSE, DEBIT AC 7123 BY VOUCHAMT,
 020120 CREDIT AC 2113 BY VOUCHAMT.
 020130 B13 UTILITIES EXPENSE, DEBIT AC 7117 BY VOUCHAMT, CREDIT AC 2113
 020140 BY VOUCHAMT.
 020150 CASH DISBURSEMENTS.
 020160 C1 ISSUE CHECK, DEBIT AC 2113 BY CASHAMT & DISCAMT, CREDIT AC
 020170 1111 BY CASHAMT, CREDIT AC 5114 BY DISCAMT.
 020180 CASH RECEIPTS.
 020190 D1 ON NOTES, DEBIT AC 1111 BY CASHAMT, CREDIT AC 1113 BY
 020200 CASHAMT - AMT1, CREDIT AC 8111 BY AMT1.
 020210 D2 DISCOUNTED NOTES, DEBIT AC 1111 BY CASHAMT, DEBIT AC 1121 BY
 020220 AMT1, CREDIT AC 2111 BY CASHAMT & AMT1.
 030010 MISCELLANEOUS
 030020 E1 BUY EQUIPMENT WITH NOTE, DEBIT AC 1311 BY AMT1 & VOUCHAMT,
 030030 CREDIT AC 2113 BY VOUCHAMT, CREDIT AC 2111 BY AMT1.
 030040 E2 PAY NOTE, DEBIT AC 2111 BY VOUCHAMT - AMT1, DEBIT AC 9111
 030050 BY AMT1, CREDIT AC 2113 BY VOUCHAMT.
 030060 E3 RECEIVE NOTE, DEBIT AC 1113 BY AMT1, CREDIT AC 1115 BY AMT1,
 030070 CREDIT SUBLED&CUSTM BY AMT1.
 030080 E4 RECEIVE SUPPL. MEMO, DEBIT AC 2113 BY AMT1, CREDIT AC 5113 BY
 030090 AMT1.
 030100 E5 WRITE OFF BAD DEBT, DEBIT AC 1113 BY AMT1, CREDIT AC 1115 BY
 030110 AMT1, CREDIT SUBLED&CUSTM BY AMT1.
 030120 E6 PURCHASE FIXTURES, DEBIT AC 1311 BY VOUCHAMT, CREDIT AC 2113
 030130 BY VOUCHAMT, DEBIT AC 1312 BY AMT3, DEBIT AC 1311 BY
 030140 AMT2 - AMT3, CREDIT AC 1311 BY AMT2.
 030150 ADJUSTMENTS.
 030160 F1 ADJUST STORE SUPPLIES INVENTORY, DEBIT AC 6115 BY AMT1,
 030170 CREDIT AC 1118 BY AMT1, DEBIT AC 1118 BY AMT2, CREDIT AC
 030180 6115 BY AMT2.

030190 F2 ADJUST OFFICE SUPPLIES INVENTORY. DEBIT AC 7115 BY AMT1.
 030200 CREDIT AC 1119 BY AMT1. DEBIT AC 1119 BY AMT2. CREDIT AC
 030210 7115 BY AMT2.
 030220 F3 INSURANCE. DEBIT AC 6116 BY AMT1. DEBIT AC 7118 BY AMT2.
 030230 CREDIT AC 1120 BY AMT1 & AMT2.
 040010 F4 INTEREST ON NOTES RECEIVABLE. DEBIT AC 1114 BY AMT1. CREDIT
 040020 AC 8111 BY AMT1.
 040030 F5 PREPAID INTEREST ON NOTES PAYABLE. DEBIT AC 9111 BY AMT1.
 040040 CREDIT AC 1121 BY AMT1.
 040050 F6 ACCRUE SALARIES. DEBIT AC 6111 BY AMT1. DEBIT AC 7111 BY
 040060 AMT2. CREDIT AC 2119 BY AMT1 & AMT2.
 040070 F7 SALES TAX. DEBIT AC 6117 BY AMT1. CREDIT AC 2118 BY AMT1.
 040080 F8 BAD DEBTS. DEBIT AC 7119 BY AMT1. CREDIT AC 1116 BY AMT1.
 040090 F9 ADJUST INVENTORIES. DEBIT AC 3115 BY AMT1. CREDIT AC 1117 BY
 040100 AMT1. DEBIT AC 1117 BY AMT2. CREDIT AC 3115 BY AMT2.
 040110 F10 INTEREST ON NOTES PAYABLE. DEBIT AC 9111 BY AMT1. CREDIT AC
 040120 2112 BY AMT1.
 040130 F11 DEPRECIATION. DEBIT AC 6114 BY AMT1. DEBIT AC 7116 BY AMT2.
 040140 CREDIT AC 1312 BY AMT1. CREDIT AC 1314 BY AMT2.
 001 C1 002 B1 003 C1 004 A1 005 A1 006 C1 007 C1 008 C1
 009 A3 010 A3 011 A1 012 A1 013 A1 014 E1 015 C1 016 B2
 017 C1 018 B11 019 B11 020 C1 021 A3 022 A1 023 A1 024 A2
 025 A1 026 B2 027 E2 028 C1 029 C1 030 C1 031 E3 032 A3
 033 A3 034 E3 035 E4 036 D1 037 A1 038 A1 039 B3 040 B11
 041 E3 042 C1 043 C1 044 A3 045 B4 046 B12 047 C1 048 C1
 049 A3 050 A3 051 E2 052 B5 053 B6 054 C1 055 C1 056 C1
 057 C1 058 A4 059 A2 060 B2 061 C1 062 D1 063 B7 064 B6
 065 B11 066 C1 067 C1 068 A3 069 A1 070 D2 071 E5 072 E6
 073 C1 074 C1 075 A3 076 A1 077 A1 078 A1 079 A4 080 A2
 081 E4 082 A1 083 A3 084 B2 085 C1 086 B11 087 B8 088 C1
 089 C1 090 B5 091 C1 092 B11 093 B11 094 A4 095 A3 096 A3
 097 C1 098 C1 099 C1 100 A2 101 A1 102 B11 103 B4 104 B13
 105 B13 106 B2 107 B9 108 B10 109 C1 110 C1 111 C1 112 C1
 113 C1 114 A2 115 F9 116 F1 117 F2 118 F3 119 F4 120 F10
 121 F5 122 F6 123 F7 124 F8 125 F11

TITLE COMPLETE SAMPLE SOLUTION

THE WHOLESALE PAPER CO.

GENERAL LEDGER

APRIL 30, 1966

ACCT NO	TITLE	BEG BAL	TOTAL DB	TOTAL CR	ENDING BAL
1111	CASH IN BANK	1,976.45	18,309.08	11,393.26	8,892.27
1112	PEITY CASH	250.00	.00	.00	250.00
1113	NOTES RECEIVABLE	1,200.00	819.67	900.00	1,119.67
1114	INTEREST RECEIVABLE	9.58	4.68	.00	14.26
1115	ACCOUNTS RECEIVABLE	4,172.08	5,960.65	7,180.42	2,952.31
1116	ALLOWANCE FOR BAD DEBTS	262.92CR	587.63	500.00	175.29CR
1117	MERCHANDISE INVENTORY	35,698.28	32,368.53	35,698.28	32,368.53
1118	STORE SUPPLIES	150.00	115.00	150.00	115.00
1119	OFFICE SUPPLIES	90.00	95.00	90.00	95.00
1120	PREPAID INSURANCE	1,120.00	226.50	65.20	1,281.30
1121	PREPAID INTEREST ON NOTES PAYABLE	.00	20.00	15.33	4.67
1311	STORE EQUIPMENT	7,600.00	5,525.00	2,000.00	11,125.00
1312	ALLOW. FOR DEP. - STORE EQUIPMENT	2,100.00CR	1,750.00	75.62	425.62CR
1313	OFFICE EQUIPMENT	2,300.00	750.00	.00	3,050.00
1314	ALLOW. FOR DEP. - OFFICE EQUIPMENT	600.00CR	.00	19.16	619.16CR
1315	BUILDINGS	42,600.00	.00	.00	42,600.00
1316	ALLOW. FOR DEP. - BUILDING	27,658.00CR	.00	.00	27,658.00CR
1317	LAND	5,000.00	.00	.00	5,000.00
2111	NOTES PAYABLE	1,400.00CR	1,400.00	3,000.00	3,000.00CR
2112	INTEREST PAYABLE	7.73CR	.00	4.33	12.06CR
2113	ACCOUNTS PAYABLE	2,804.90CR	11,833.86	14,411.47	5,382.51CR
2114	EMPLOYEES INCOME TAXES PAYABLE	263.00CR	.00	.00	263.00CR
2115	F.I.C.A. TAXES PAYABLE	94.50CR	.00	.00	94.50CR
2116	STATE UNEMPLOYMENT TAXES PAYABLE	154.35CR	.00	.00	154.35CR
2117	FEDERAL UNEMPLOYMENT TAXES PAYABLE	22.05CR	.00	.00	22.05CR
2118	SALES TAXES PAYABLE	615.18CR	.00	195.09	810.27CR
2119	SALARIES PAYABLE	.00	.00	175.00	175.00CR
2120	ESTIMATED INCOME TAXES PAYABLE	.00	.00	.00	.00
2121	PROPERTY TAXES PAYABLE	.00	.00	.00	.00
2211	MORTGAGE PAYABLE	12,000.00CR	.00	.00	12,000.00CR
3111	PREFERRED 6% STOCK	10,000.00CR	.00	.00	10,000.00CR
3112	COMMON STOCK	10,000.00CR	.00	.00	10,000.00CR
3113	PREMIUM ON PREFERRED STOCK	2,200.00CR	.00	.00	2,200.00CR
3114	RETAINED EARNINGS	11,983.76CR	.00	.00	11,983.76CR
3115	PROFIT AND LOSS SUMMARY	.00	35,698.28	32,368.53	3,329.75
4111	SALES	.00	.00	15,714.93	15,714.93CR
4112	SALES RETURNS AND ALLOWANCES	.00	225.54	.00	225.54
4113	SALES DISCOUNT	.00	94.00	.00	94.00
5111	PURCHASES	.00	5,932.67	.00	5,932.67
5112	FREIGHT-IN	.00	511.05	.00	511.05
5113	PURCHASES RETURNS AND ALLOWANCES	.00	.00	395.00	395.00CR
5114	PURCHASES DISCOUNT	.00	.00	45.60	45.60CR
6111	SALES SALARIES	.00	123.33	.00	123.33

6112	ADVERTISING EXPENSE	.00	215.00	.00	215.00
6113	DELIVERY EXPENSE	.00	103.20	.00	103.20
6114	DEPRECIATION OF STORE EQUIPMENT	.00	75.62	.00	75.62
6115	STORE SUPPLIES EXPENSE	.00	247.05	115.00	132.05
6116	INSURANCE EXPENSE - SELLING	.00	43.40	.00	43.40
6117	MISCELLANEOUS SELLING EXPENSE	.00	76.27	.00	76.27
7111	OFFICE SALARIES	.00	51.67	.00	51.67
7112	OFFICERS SALARIES	.00	.00	.00	.00
7113	PAYROLL TAX EXPENSE	.00	.00	.00	.00
7114	RENT EXPENSE	.00	500.00	.00	500.00
7115	OFFICE SUPPLIES EXPENSE	.00	165.50	95.00	70.50
7116	DEPRECIATION OF OFFICE EQUIPMENT	.00	19.16	.00	19.16
7117	UTILITIES EXPENSE	.00	205.60	.00	205.60
7118	INSURANCE EXPENSE - GENERAL	.00	21.80	.00	21.80
7119	BAD DEBTS EXPENSE	.00	500.00	.00	500.00
7120	REPAIRS ON BUILDING	.00	.00	.00	.00
7121	DEPRECIATION OF BUILDING	.00	.00	.00	.00
7122	PROPERTY TAX EXPENSE	.00	.00	.00	.00
7123	MISCELLANEOUS GENERAL EXPENSE	.00	15.00	.00	15.00
8111	INTEREST INCOME	.00	.00	16.18	16.18CR
9111	INTEREST EXPENSE	.00	33.66	.00	33.66

 THE WHOLESALE PAPER CO.
 ACCOUNTS RECEIVABLE TRIAL BALANCE

ACT NO	TITLE	BEG BAL	TOTAL DB	TOTAL CR	ENDING BAL
10	ACME CO.	204.00	283.60	204.00	283.60
20	S. R. BROWN	186.15	502.35	186.15	502.35
30	COSWELL CORP.	315.00	603.98	315.00	603.98
40	BRAKE-ELM CO.	252.00	314.79	252.00	314.79
50	FRANK ELKINS	133.52	.00	133.52	133.52
60	H. B. FISHER	357.00	519.71	357.00	519.71
70	HARRIS CO.	533.00	872.20	1,405.20	872.20
80	R. D. HDWE	.00	373.67	.00	373.67
90	KING & BLAKE	190.00	214.20	404.20	214.20
100	WILLIAM LEEDS	.00	91.80	.00	91.80
110	MCCLAIR CORP.	208.00	.00	208.00	208.00
120	MILLER CO.	202.53	237.15	439.68	237.15
130	NORTON, INC.	403.00	719.10	1,122.10	719.10
140	JAMES POST	100.25	.00	100.25	100.25
150	HAROLD ROBERTS	.00	361.10	.00	361.10
160	E. N. SCOTT	500.00	.00	500.00	500.00
170	LEWIS TERRY	.00	867.00	46.92	820.08
180	GEORGE WALLACE	587.63	.00	587.63	587.63
TOTALS		\$ 4,172.08	5,960.65	7,180.42	2,952.31

TITLE COMPLETE SAMPLE SOLUTION

 THE WHOLESALE PAPER CO.
 INCOME STATEMENT
 MONTH ENDED APRIL 30, 1966

SALES			15,714.93-
LESS RETURNS AND ALLOWANCES		225.54	
DISCOUNTS		94.00	319.54
			15,395.39-
COST OF GOODS SOLD			
BEGINNING INVENTORY		35,698.28	
PURCHASES		5,732.67	
FREIGHT-IN		511.05	
		42,142.00	
LESS RETURNS AND ALLOWANCES	395.00-		
PURCHASE DISCOUNTS	45.60-	440.60-	
COST OF GOODS AVAILABLE FOR SALE		41,701.40	
ENDING INVENTORY		32,368.53	
COST OF GOODS SOLD			9,332.87
GROSS PROFIT			\$ 6,062.52-
SELLING EXPENSES			
SALES SALARIES	123.33		
ADVERTISING	215.00		
DELIVERY	103.20		
DEPRECIATION - STORE EQUIPMENT	75.62		
STORE SUPPLIES	132.05		
INSURANCE	43.40		
MISCELLANEOUS	76.27	768.87	
GENERAL EXPENSES			
OFFICE SALARIES	51.67		
OFFICERS SALARIES	.00		
PAYROLL TAXES	.00		
RENT	500.00		
OFFICE SUPPLIES	70.50		
DEPRECIATION - OFFICE EQUIPMENT	19.16		
UTILITIES	205.60		
INSURANCE	21.80		
BAD DEBTS	500.00		
REPAIRS ON BUILDING	.00		
DEPRECIATION - BLDG	.00		
PROPERTY TAXES	.00		
MISCELLANEOUS	15.00	1,883.73	2,152.60
NET OPERATING INCOME			\$ 3,909.92-
OTHER INCOME AND EXPENSE			
INTEREST INCOME		16.18-	
INTEREST EXPENSE		33.66	17.48
NET INCOME			\$ 3,892.44-

TITLE COMPLETE SAMPLE SOLUTION

THE WHOLESALE PAPER CO.

BALANCE SHEET

APRIL 30, 1966

ASSETS		LIABILITIES AND CAPITAL	
CURRENT ASSETS		CURRENT LIABILITIES	
CASH IN BANK	8,892.27	NOTES PAYABLE	3,000.00-
PETTY CASH	250.00	INTEREST PAYABLE	12.06-
NOTES RECEIVABLE	1,119.67	ACCOUNTS PAYABLE	5,382.51-
INTEREST RECEIVABLE	14.26	EMPLOYEES INCOME TAX PAYABLE	263.00-
ACCOUNTS RECEIVABLE	2,952.31	F.I.C.A. TAXES PAYABLE	94.50-
LESS ALLOWANCE FOR		STATE UNEMPLOYMENT TAXES PAYABLE	154.35-
BAD DEBTS	175.29-	FEDERAL UNEMPLOYMENT TAXES	
MERCHANDISE INVENTORY	2,777.02	PAYABLE	22.05-
STORE SUPPLIES	32,368.53	SALES TAXES PAYABLE	810.27-
OFFICE SUPPLIES	115.00	SALARIES PAYABLE	175.00-
PREPAID INSURANCE	95.00	ESTIMATED INCOME TAXES PAYABLE	.00
PREPAID INTEREST ON	1,281.30	PROPERTY TAXES PAYABLE	.00
NOTES PAYABLE	4.67		
		TOTAL CURRENT LIABILITIES	9,913.74-
TOTAL CURRENT ASSETS	46,917.72		
PROPERTY, PLANT & EQUIPMENT		LONG-TERM LIABILITY	
STORE EQUIPMENT	11,125.00	MORTGAGE PAYABLE	12,000.00-
LESS ACCUMULATED DEPRECIATION	425.62-		
OFFICE EQUIPMENT	10,699.38	TOTAL LIABILITIES	21,913.74-
LESS ACCUMULATED DEPRECIATION	619.16-	CAPITAL	
BUILDING	2,430.84	PREFERRED 6% STOCK - \$50 PAR, 200	
LESS ACCUMULATED DEPRECIATION		SHARES ISSUED AND OUTSTANDING	10,000.00-
LAND	5,000.00	COMMON STOCK - \$20 PAR, 3000	
		SHARES AUTHORIZED, 1500 SHARES	
TOTAL PROP, PLANT & EQUIP	33,072.22	ISSUED AND OUTSTANDING	30,000.00-
		PREMIUM ON PREFERRED STOCK	2,200.00-
TOTAL ASSETS	\$ 79,989.94	RETAINED EARNINGS	15,876.20-

		TOTAL LIABILITIES AND CAPITAL	\$ 79,989.94-

B I N G D
