

HEWLETT-PACKARD CALCULATOR

9830A ACCOUNTING SYSTEMS ACCOUNTS RECEIVABLE-BILLING PAC

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CALCULATOR PRODUCTS DIVISION

P.O. Box 301, Loveland, Colorado 80537, Tel (303) 667-5000 Post Office Box 85, CH-1217 Meyrin 2, Geneva, Switzerland

Japan: YHP, 1-59-1, Yoyogi, Shibuya-Ku, Tokyo, 151

HP Computer Museum www.hpmuseum.net

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Introduction

This system was developed to provide the user with a very easy to operate, sensible approach to Accounts Receivable/Billing. Throughout the manual, it is assumed that the reader is knowledgeable about Accounts Receivable/Billing, but has no expertise in computers or programmable calculators.

You can start using the system immediately beginning with the Start-Up Procedure in Appendix A and followed with the Operation Section, however, we recommend investing enough time to read the Special Considerations Section. The Special Considerations Section outlines a number of useful hints to increase the efficiency of the operation and expand the flexibility of the system.

The system is for a non-technical, non-programming user, but we feel there are a number of users who would like to know some of the details of the system and have the tools to modify some of the programs. Appendices B through E are provided for this user. Complete listings of all data entry programs and report programs are provided to assist the user in making modifications. There are no listings of the programs that manipulate the data because a seemingly simple change in one of these programs could affect the operation of the system.

We would appreciate any comments or suggestions you have regarding this Pac. Full responsibility for the good features of this system belongs to the programmers, Kay Piersol, Bob Jewett and Jeff Osborne.

Ron Vernon Bert Desmond

Accounting Applications HEWLETT-PACKARD Loveland, Colorado

System Configuration

M	ODEL 30 CALCULATOR □ 1760 Words RWM, Basic Calculator ☑ 3808 Words RWM, Option 275 □ 7904 Words RWM, Option 276	
D	OMS	
11	String Variables	
		_
ΡI	ERIPHERALS	SELECT CODE
	\square 98 A Card Reader	
*	■ 9861A Typewriter	
	□ 9862A Plotter	
	□ 9863A Paper Tape Reader	
	□ 9864A Digitizer	
.¥.	□ 9865A Cassette Memory	4.5
^	■ 9866A Thermal Page Printer	•
	□ 9867 Mass Memory Drive (Unit No.) 9880B Mass Memory System (Unit Nos. 0,1)	
		. ———

^{*} The system's reports are designed so they can be printed using the 9866A Thermal Page Printer. However, if typewritten reports are desired such as for customer statements and past due letters, the 9861A Typewriter is necessary.

Special Considerations

INTRODUCTION

The purpose of this section is to provide a collection of operating suggestions for helping the user increase the value of the system.

A question, answer format is used to make it easy for the reader to decide if a question is of interest before continuing.

What if I make a mistake in one of my entries?

Don't worry, the system is very forgiving.

If the error has already been entered, an appropriate edit program can be used.

If you see the mistake in the display before it is entered there are two alternatives. The CLEAR key in the upper right hand corner of the typewriter keyboard will erase the display and a question mark will appear indicating it is waiting for the entry.

The second alternative is using the edit keys above the typewriter keyboard and to the right of the template keys. The BACK, FORWARD, INSERT and RECALL keys are simple to use yet very powerful and will make corrections of mistakes easy to make and faster than the CLEAR key. Refer to the Program Editing section of the 9830 Operating and Programming Manual for information on these keys.

I know the data entries have acceptable ranges, what happens when I exceed these ranges?

Like the rest of the system, these problems are handled easily. There are two types of mistakes in this case; the first is exceeding the range of numeric entries, and the second is entering alphanumeric entries that have too many characters.

If the numeric range is exceeded, the entry will not be accepted and the appropriate question is asked again through the display. Another situation is entering an alphanumeric for a numeric. If the first character entered is a non-numeric, the entry is ignored and a question mark appears in the display. If an alphanumeric character appears after some numerics, the numbers up to the non-numeric character are accepted as the entry. If this is a mistake, correct it with the appropriate edit program.

When an alphanumeric entry is longer than the acceptable length, the calculator will "beep" and a message will appear in the display, "ERROR 74 IN LINE < NO > ?". The question mark indicates that the information should be re-entered shortened to the correct length.

(SPECIAL CONSIDERATIONS - Continued)

Although, we already have a scheme for keeping track of items, (parts, customers, vendors, etc.), do you have any suggestions for this system ?

It is not necessary to change item numbers to use the system, however, experience has shown that the following recommendations are very helpful.

- A. Layout the items in the order you want them kept, (alphabetic for customers and vendors).
- B. Start numbering with a large enough number so each item will have the same length, (item 10000 is a good starting point).
- C. Assign numbers by tens so a reasonable sequence can be maintained when new items are added. For example, if the first number is 10000, the second number should be 10010.

It's obvious how easy it is to start an operation, all I have to do is touch the appropriate key. What do I need to do to get out of an operation?

Reports and updating are very simple, when the operation is complete, you may select another operation when "SELECT KEY" is in the display. On data entry and editing, a zero entry for a main item is used as the signal to the system to indicate the operation is complete.

The entry message in the display for a main entry will be followed with, "(0 TO END)", to indicate it is a main entry.

I'm scared, with my luck I know I'm going to wipe-out one of the important files. What can I do?

Simple, the system has been designed with the dual platter 9880B Mass Memory especially for the purpose of providing backup. You'll notice in the initial setup of the system we recommend that the system be established on two platters.

This lets one platter be used for day to day operation while the other platter is stored safely away in reserve. To copy important files from one platter to the other, the BACKUP key is available. At the touch of a button, the important files are copied.

By the way, the system is written with the removable platter designated as Unit 0 and the fixed platter as Unit 1. When the system is delivered, it should be set up this way.

I'm really clumsy, the keys for operating the system are close enough that I'm sure I'll hit the wrong one. What will happen?

All the keys are setup so the display shows, for a few seconds, what is going to happen. If you hit a wrong key you'll see it in the display. Just touch the STOP key to correct the mistake and press the correct button.

(SPECIAL CONSIDERATIONS - Continued)

What happens when the system tries to print a number in a report that is too large to fit into the space provided?

Enough room has been set aside in the reports to fit the majority of numbers however, it could happen that a number is larger than the reserved space. In this case, the calculator prints dollar signs (\$) instead of the number.

If this occurs, it most likely means there has been a mistake in one of the data entries. Use the appropriate edit program to correct this.

If the number is realistic, and too large to be printed, the reporting program can easily be corrected by someone familiar with BASIC

How can I get reports on another printing device?

All of the reports generated by the system are printed on the primary printing device which has a select code of 15. There may be occasions when certain reports should be printed on another printing device which has a select code other than 15. This situation can be handled very easily.

All the data entry and reporting programs are listed in Appendix D. In the beginning of the report programs, the select code is determined in a statement that says S = 15. To correct this, GET the appropriate program, change the select code statement, "KILL" the program name and "SAVE" the required program with the correct name. Refer to the Mass Memory Operating Manual for information on the GET, SAVE and KILL commands.

The thermal printer is very nice, it's quiet, fast and good looking. The only problem is I want all my reports to be eleven inches long and I don't want to use scissors to cut each report to the correct length. What should I do?

On each report that is more than one page (66 lines) long, the printer spaces to the end of a page and pauses for three seconds while the display shows, "TEAR PAPER NOW". This gives you the opportunity to tear the paper on the run. In addition, a small dash, "-", is printed every eleven inches as a guide for cutting the report.

What is a quick way to determine the status of any record stored on the system without generating a lengthly report?

The appropriate edit key is very useful for rapid inquiry to the status of an invoice. The edit program will show the information on the particular record and all you have to do is respond negatively to the correct record question.

(SPECIAL CONSIDERATIONS - Continued)

How can I make changes to the programs?

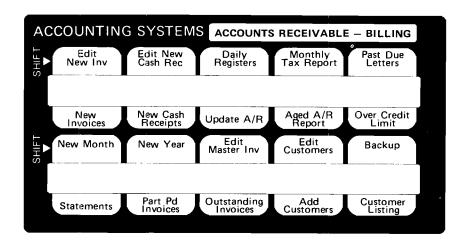
To simplify making modifications to the system, Appendices B, C, D, and E list complete information about the system for a programmer's convenience. All data entry programs and report programs are listed for this purpose.

The data manipulation programs are not available for the user to modify because they are very inter-related and a seemingly minor change in one program could easily effect the whole system and make it inoperative.

How many customers and invoices can the system hold?

The system has been designed so that one platter holds up to 800 customers in the customer file, 800 invoices in the master invoice file, 100 new invoices in the new invoices file, and 100 new cash receipts in the cash receipts file.

Daily Start-Up Procedure



DESCRIPTION:

This procedure outlines how to start Accounts Receivable/Billing on a daily basis. See Appendix A for the instructions on initially setting up the Accounts Receivable/Billing System.

The Daily Startup Procedure performs two functions, it establishes the date to be printed on all reports and the procedure activates the Special Function Keys to perform Accounts Receivable/Billing.

In most situations, the Mass Memory platter that is used is Unit 0. However, if it is not zero, the correct unit number, either 1, 2 or 3 must be established. For more detail on unit numbers refer to the Mass Memory Operating Manual.

Acceptable Data:

Todays Date

72 Characters Maximum 1

If the maximum length is exceeded, the calculator will "beep" and "ERROR 74" will appear in the display followed by a question mark. Re-enter the data shortened to the correct length.

DAILY STARTUP PROCEDURE

USER INSTRUCTIONS:

1. Enter: SCRATCHA

Press: EXECUTE

2. Enter: UNIT

Enter: The correct unit number

Press: EXECUTE

3. Enter: GET "BILL"

Press: EXECUTE

4. Press: RUN

Press: EXECUTE

5. When "TODAYS DATE?" is displayed:

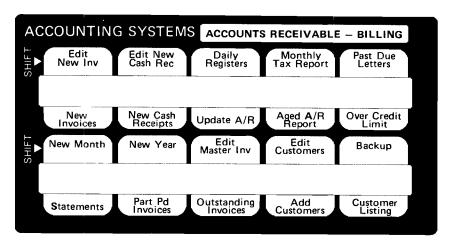
a. Enter: The date as you wish it to appear on your reports.

b. Press: EXECUTE

6. The display should now contain "SELECT KEY". Any appropriate key may now be pressed as described on the following pages.



NEW INVOICES



DESCRIPTION:

This program allows the user to add new invoices to the new invoice file. Each customer number entered is checked against the customer file to insure that the customer number corresponds to a valid customer. The discount taken is calculated for each invoice. This discount taken is calculated using the bill amount plus the service charge multiplied by the discount percent; it is then printed into the file. A maximum of 100 invoices can be entered in the new invoice file before running an update.

Enter new invoices before entering new cash receipts, since the new cash receipts uses the new invoice file to verify customer number - invoice number combinations.

After all the invoices are entered, the file is sorted by customer number - invoice number. It is recommended that this program be run in "print all" mode in order to have a printed copy of the actual entries.

It may take up to 10 minutes with 100 invoices.

(NEW INVOICES - Continued)

Acceptable Data:

Invoice Number

Customer Number

Date $(M/D/Y, \emptyset \text{ for today})$

Maximum of 8 digits. 1

Maximum of 8 digits.1

Maximum of 10 characters Month/

Day/ Year or Ø. 2

Freight
Service
Discount %

Purchase Order Number

Finance %

Greater than or equal to zero. 1
Greater than or equal to zero. 1
Greater than or equal to zero. 1

Maximum of 14 characters or digits.²

Greater than or equal to zero.1

¹ If the above capabilities are exceeded, "ERROR, RE-ENTER(User Name)" will be displayed followed by a question mark. Also, if the user enters an alphanumeric item to a question requesting a numeric response, a question mark is displayed. Re-enter the numeric item in either case.

² If the entry exceeds the number of characters allowed, "ERROR 74" will be displayed, followed by a question mark. Re-enter the item in shortened form. If a non-reasonable date is entered then "ERROR RE-ENTER (User Name)" is displayed. Enter the date correctly. Non-reasonable is a month that is not 1 to 12, or a day that is not 1 to 31, or a year that is not 70 to 99.

NEW INVOICES

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "NEW INVOICES" (f $_{\scriptscriptstyle 0}$).
- 2. When "ENTER TODAYS DATE (M/D/Y)?" is displayed:
 - a. Enter: The date that will appear as the date billed on the majority of the new invoices. M = Month, D = Day, Y = Year. For example: January 31, 1974 is entered as 1/31/74.
 - b. Press: EXECUTE.
- 3. When "ENTER INVOICE NUMBER (Ø TO END)?" is displayed:
 - a. Enter: The invoice number.
 - b. Press: EXECUTE.

Note: To end entries to the new invoice file:

- a. Enter: Ø.
- b. Press: EXECUTE.
- c. Go to step 11.
- 4. When "ENTER CUSTOMER NUMBER?" is displayed:
 - a. Enter: The customer number.
 - b. Press: EXECUTE.

The customer number entered is checked against the customer file to insure that it corresponds with a valid customer. If it is not a valid customer:

- a. "(Customer Number) INVALID CUSTOMER" is printed.
- b. Go to step 4.
- 5. When "ENTER DATE (M/D/Y, Ø FOR TODAY)?" is displayed:
 - a. Enter: The date billed; M = Month, D = Day, Y = Year. For example: January 31, 1974 is entered as 1/31/74.
 - b. Press: EXECUTE.

Note: If the date billed is the date entered in step 2:

- a. Enter: Ø.
- b. Press: EXECUTE.
- c. Todays Date will be entered as the date billed.
- 6. When "ENTER FREIGHT?" is displayed:
 - a. Enter: The freight charge for shipment of the goods.
 - b. Press: EXECUTE.
- 7. When "ENTER SERVICE?" is displayed:
 - a. Enter: The service charge.
 - b. Press: EXECUTE.

(NEW INVOICES - Continued)

- 8. When "ENTER DISCOUNT %?" is displayed:
 - a. Enter: The percent discount, on the bill amount plus service, allowed if paid within 10 days. For example: If 2% is allowed, enter 2.
 - b. Press: EXECUTE.
- 9. When "ENTER PURCHASE ORDER NO?" is displayed:
 - a. Enter: The customer's purchase order number.
 - b. Press: EXECUTE.
- 10. When "ENTER FINANCE %?" is displayed:
 - a. Enter: The percent finance charge per month on all past due accounts. For example: If 1.5% will be charged for each 30 days past due, enter 1.5.
 - b. Press: EXECUTE.
 - c. Go to step 3.
- 11. After all the invoices are entered (Ø is entered as the invoice number or 100 new invoices are in the new invoices file):
 - a. The total of the bill amount, freight, and service will be printed for the user's verification.
 - b. Go to step 12.

If the control totals are incorrect:

- a. When "SELECT KEY" is displayed (step 13):
 - 1. The user may press: "DAILY REGISTERS" to obtain a report of the daily registers.
 - 2. Press: EDIT NEW INV to edit the invoice with the incorrect values.
- 12. The new invoice file is sorted by customer number invoice number.
- 13. "SELECT KEY" is displayed when the program is finished.

EXAMPLE

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "NEW INVOICES" (F0) GET"BILL3" + 1 + 1 NEW INVOICES ENTER TODAYS DATE (M/D/Y)?11/16/73 ENTER INVOICE NUMBER (0 TO END)?5000 ENTER CUSTOMER NUMBER?1000 ENTER DATE (MZDZY)0 FOR TODAY)90 ENTER BILL AMOUNT?265.32 ENTER FREIGHT912 ENTER SERVICE?6.52 ENTER DISCOUNT %?1 ENTER PURCHASE ORDER MO?4569 ENTER FINANCE %?1.2 ENTER INVOICE NUMBER (0 TO END)?5001 ENTER CUSTOMER NUMBER?1310 ENTER DATE (M/D/Y,0 FOR TODAY)?0 ENTER BILL AMOUNT?45.12 ENTER FREIGHT?5.65 ENTER SERVICE?0 ENTER DISCOUNT %70 ENTER PURCHASE ORDER NO?1236 ENTER FINANCE %?1 ENTER INVOICE NUMBER (0 TO END)?5002 ENTER CUSTOMER NUMBER?1200 ENTER DATE (M/D/Y,0 FOR TODAY)?11/15/73 ENTER BILL AMOUNT?235.65 ENTER FREIGHT?12.5 ENTER SERVICE?23 ENTER DISCOUNT %?1 ENTER PURCHASE ORDER MO?7458 ENTER FINANCE %?1.2 ENTER INVOICE NUMBER (0 TO END)?0

CONTROL TOTALS - INVOICES

TOTAL BILL AMOUNT = 546.09

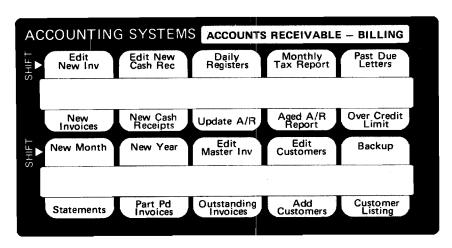
TOTAL FREIGHT = 30.15

TOTAL SERVICE = 29.52

SELECT KEY



NEW CASH RECEIPTS



DESCRIPTION:

This program allows the user to add new cash receipts to the new cash receipts file. Each customer number - invoice number combination is checked against the master invoice file and the daily invoice file to insure that the combination is valid. Because of this check, new invoices should be entered before new cash receipts.

A maximum of 100 cash receipts may be entered in the new cash receipts file before running the update. After all the new cash receipts are entered, the new cash receipts file is sorted by customer number - invoice number.

Adjustments are handled in the following ways, if the adjustment is positive, it is added to the invoice. In the same manner, a negative adjustment is subtracted from the invoice.

It is recommended that the program be run in the "print all" mode in order to have a printed copy of the actual entries. It may take up to 10 minutes with 100 cash receipts.

(NEW CASH RECEIPTS - Continued)

Acceptable Data:

Invoice Number

Customer Number

Adjustment

Date $(M/D/Y, \emptyset \text{ for today})$

Cash Received

Maximum of 8 digits. 1

Maximum of 8 digits.1

Positive, negative or zero. ¹ Maximum of 10 characters

Month/Day/Year or Ø. 2

Greater than or equal to zero.1

¹ If the above capabilities are exceeded, "ERROR, RE-ENTER (User Name)" will be displayed. Also, if the user enters an alphanumeric item to a question requesting a numeric response, a question mark is displayed. Re-enter the numeric item in either case.

² If the above capabilities are exceeded, "ERROR 74" will be displayed, followed by a question mark. Re-enter the item shortened to the correct length. If a non-reasonable date is entered, then "ERROR, RE-ENTER (User Name)" is displayed. Enter the date correctly. Non-reasonable is a month that is not 1 to 12 or a day that is not 1 to 31 or a year that is not 70 to 99.

NEW CASH RECEIPTS

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "NEW CASH RECEIPTS" (f 1).
- 2. When "ENTER TODAYS DATE (M/D/Y)?" is displayed.
 - a. Enter: The date that will appear as the date paid on the majority of the new cash receipts. M = Month, D = Day, Y = Year. For example, for January 31, 1974, enter 1/31/74.
 - b. Press: EXECUTE.
- 3. When "ENTER INVOICE NUMBER (Ø TO END)?" is displayed:
 - a. Enter: The invoice number.
 - b. Press: EXECUTE.

Note: To end entries to the new cash receipts file:

- a. Enter: Ø.
- b. Press: EXECUTE.
- c. Go to step 8.
- 4. When "ENTER CUSTOMER NUMBER?" is displayed:
 - a. Enter: The customer number.
 - b. Press: EXECUTE.

The customer number - invoice number combination is checked against the master invoice file and the new invoice file to insure that it corresponds to a valid invoice. If it is not valid:

- a. "(Customer Number Invoice Number) INVALID CUSTOMER INVOICE COMBINATION is printed.
- b. Go to step 3.
- 5. When "ENTER ADJUSTMENTS?" is displayed:
 - a. Enter: The adjustment
 - Ø if no adjustment.

Positive + if the adjustment is to be added to the remaining balance.

Negative - if the adjustment is to be deducted from the remaining balance.

- b. Press: EXECUTE.
- 6. When "ENTER DATE (M/D/Y, Ø FOR TODAY)?" is displayed:
 - a. Enter: The date paid.
 - b. Press: EXECUTE

Note: If the date paid is the date entered in step 2.

- a. Enter: Ø.
- b. Press: EXECUTE.
- c. Todays date will be entered as the date paid.

(NEW CASH RECEIPTS - Continued)

- 7. When "ENTER CASH RECEIVED?" is displayed:
 - a. Enter: The amount of cash received.
 - b. Press: EXECUTE.
 - c. Go to step 3.
- 8. After all the new cash receipts are entered (\emptyset is entered as the invoice number or 100 cash receipts are in the new cash receipts file):
 - a. The total of the adjustment and cash received will be printed for the user's verification.
 - b. Go to step 9.

Note: If the control totals are incorrect:

- a. When "SELECT KEY" is displayed (step 10):
 - 1. The user may press: "DAILY REGISTERS" to obtain a report of the daily registers.
 - 2. Press: EDIT NEW CASH REC, to edit the invoice with the incorrect values.
- 9. The new cash receipts file is sorted by customer number invoice number.
- 10. "SELECT KEY" is displayed when the program is finished.

EXAMPLE

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "NEW CASH RECEIPTS" (F1)

GET"BILL5":1:1

NEW CASH RECEIPTS

ENTER TODAYS DATE (M/D/Y)?11/16/73

ENTER INVOICE NUMBER (0 TO END)?3698

ENTER CUSTOMER NUMBER?1020

ENTER ADJUSTMENTS?0

ENTER DATE (M/D/Y)0 FOR TODAY)70

ENTER CASH RECEIVED?1686.25

ENTER INVOICE NUMBER (0 TO END)?4002

ENTER CUSTOMER MUMBER?1090

ENTER ADJUSTMENTS?-.24

ENTER DATE (M/D/Y,0 FOR TODAY)?0

ENTER CASH RECEIVED?60.00

ENTER INVOICE NUMBER (0 TO END) 72564

ENTER CUSTOMER NUMBER?1080

ENTER ADJUSTMENTS?@

ENTER DATE (M/D/Y)0 FOR TODAY)911/15/73

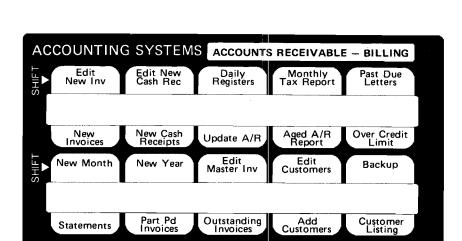
ENTER CASH RECEIVED?625

EMTER INVOICE NUMBER (0 TO END)?0

CONTROL TOTALS - CASH RECEIPTS TOTAL CASH RECEIPTS = 2371.25 TOTAL ADJUSTMENTS = -0.24

SELECT KEY





DESCRIPTION:

This key updates the outstanding accounts receivable with the new invoices and the new cash receipts. The system automatically prints the new invoices and the new cash receipts to provide an audit trail.

After establishing a reference date for calculating Aged Accounts Receivable, the system performs seven functions and with 800 customers, may take two hours to complete. The functions performed are listed below.

- a. It copies the customer information from the customer file to the new invoice file. It also calculates city tax, state tax and total amount billed.
- b. It then merges the invoices of the new invoice file with the master invoice file.
- c. The date paid, total amount paid, adjustments, remaining balance and discount taken (if applicable) are now calculated and this information is printed into the master invoice file.
- d. All records with a remaining balance equal to zero are deleted from the master invoice file, and the aged A/R (current, 30, 60, 90, total out) are calculated and printed into the master invoice file.
- f. The system is reset for the next operation or run.
- g. The daily registers (new invoices and new cash receipts) are printed.

Acceptable Data:

Todays Date

Month/Day/Year Maximum Length 10 Characters¹

¹ If the maximum length is exceeded, the calculator will "beep" and "ERROR 74" will appear in the display followed by a question mark. Re-enter the data shortened to the correct length.

UPDATE A/R USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "UPDATE A/R" (f_2) .
- 2. When "ENTER TODAYS DATE (M/D/Y)?" is displayed:
 - a. Enter: Todays date M = month; D = day; Y = year. For example January 31, 1974 should be entered as 1/31/74.
 - b. Press: EXECUTE.
- 3. The program is complete when "SELECT KEY" is displayed.

EXAMPLE

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "UPDATE A/R" (F2)

GET"BILL7":1:1

UPDATE AZR

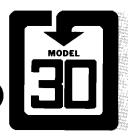
TODAYS DATE (M/D/Y)?11/16/73

DAILY INVOICE REGISTER NOVEMBER 16,1973

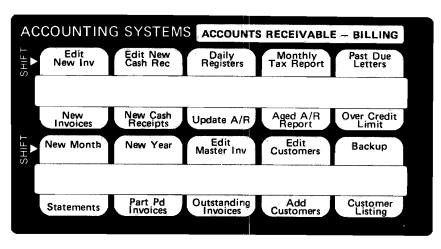
CUSTOMER	INVOICE	AMOUNT	DATE	DISC	
NUMBER	NUMBER	BILLED	BILLED	PERC	
1000	5000	297.11	11/16/73	1.00	
1200	5002	285.29	11/15/73	1.00	
1310	5001	55.67	11/16/73	1.00	
	TOTAL	638.07			

CASH RECEIPTS REGISTER NOVEMBER 16,1973

CUSTOMER	INVOICE	ADJUST-	INTE	CASH
NUMBER	NUMBER	MENTS	PAID	RECEIVED
1020	3698	0.00	11/16/73	1686.25
1080	2564	-0.77	11/15/73	625.00
1090	4002	-0.24	11/16/73	60.00
	TOTAL	-1.81		2371.25



AGED A/R REPORT



DESCRIPTION:

This program prints the aged accounts receivable information. Totals are calculated and printed for total outstanding, < 30 days, 30 - 59 days, 60 - 89 days, and > = 90 days. Percent of total outstanding is calculated and printed for < 30 days, 30 - 59 days, 60 - 89 days, and > = 90 days.

NOTE: Aged A/R Reports should be run before Past Due Letters are obtained, in order for the correct information to be printed in the report. If the Past Due Letters program is run before Aged A/R, the finance charge is added to the remaining balance and reprinted into the master invoice file. Because of this, the new remaining balance appears in the TOTAL OUT column, but will not appear in the aging column.

AGED A/R REPORT USER INSTRUCTIONS;

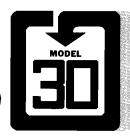
- 1. Press: The accounting systems key labeled "AGED A/R REPORT" (f $_{3}$)
- 2. The program is complete when "SELECT KEY" is displayed.

EXAMPLE

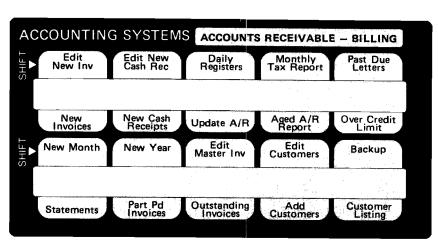
PRESS THE ACCOUNTING SYSTEMS KEY LABELED "AGED A/R REPORT" (F3)

AGED ACCOUNTS RECEIVABLE REPORT NOVEMBER 16,1973

CUSTOMER NAME	INVOICE NUMBER	TOTAL OUT	< 30 DAYS	30-59 DAYG	60-89 DAYS	>=98 DAY8
ANDERSONS DAIRY	5000	297.11	297.11	8.00	0.00	0.00
ASMUS BOOK NOOK	3000	26.50	0.00	26.50	8.80	8.80
BALOG'S BAR	1526	732.61	0.00	0.00	0.60	732.61
CUSTOMER TOTAL	2589	637.94 1370.55	0.00 0.00	637.94 637.94	0.00 0.00	0.00 732.61
BARNEY'S BOUTIQUE	2500	598.86	8.88	598.86	0.00	0.00
BODE'S BORDING HOUSE	2564	290.51	8.88	290.51	0.00	0.00
BRADEN'S ART SHOP	4002	100.00	100.00	0.00	0.00	0.00
CHURCHILL FORMS	1750	265.00	0.00	0.00	0.00	265.00
CONNELL PIZZA PALACE	1250 1260	517.57 661.00	0.00 0.00	0.00 661.00	517.57 0.00	0.00 0.80
CUSTOMER TOTAL	2589	591.00 1769.57	0.00 0.00	0.00 661.00	591.00 1108.57	0.00 0.00
BLASS GLASS FACTORY	1500	126.80	0.80	0.00	0.00	126.80
EAGLE'S BIRD STORE	5002	285.29	285.29	0.00	0.00	0.00
GUERRERO TAX DODGE	4003	185.14	185.14	0.00	0.80	0.00
HELLER SPORT SHOP	5001	55.67	55.67	0.00	0.00	9.89
TOTAL PERCENT		5371.00 100	923.21 17.19	2214.81	1108.57 20.64	1124.41 20.93



OVER CREDIT LIMIT



DESCRIPTION:

This program allows the user to obtain a report of all customers where the total outstanding exceeds their credit limit. The printing speed may appear erratic because each customer's outstanding invoices are totaled and checked against the customer's credit limit, but only those exceeding the credit limit are printed.

OVER CREDIT LIMIT USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "OVER CREDIT LIMIT" (f $_{4}$).
- 2. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "OVER CREDIT LIMIT" (F4)

OVER CREDIT LIMIT REPORT NOVEMBER 16,1973

CUSTOMER NUMBER	CUSTOMER NAME	CREDIT LIMIT	DATE LAST PAY	TOTAL OUT	AMCUNT OVER
1030 1040 1140 1290	BALOG'S BAR BARNEY'S BOUTIQUE CONNELL PIZZA PALACE GUERRERO TAX DODGE	400.00	11/12/73 11/01/73 11/12/73	1370.55 598.86 1769.57 185.14	1070.55 198.86 1569.57 85.14
	TATAL	1000.00		3924.12	2924.12



ACCOUNTING SYSTEMS ACCOUNTS RECEIVABLE - BILLING Edit New Inv Edit New Cash Rec Past Due Letters Monthly Tax Report New Cash Receipts Aged A/R Report Over Credit Limit New Invoices Update A/R Edit Master Inv Edit Customers New Month New Year Backup Part Pd Invoices Add Customers Customer Listing Outstanding Invoices Statements

DESCRIPTION:

This program prints a statement of the amount billed, freight, service, taxes, terms of the statement and finance charge percent for each invoice in the new invoice file. If the finance charge percent is zero it is not printed.

The statement will be printed with capital and lower case letters on printers that have this capability.

Acceptable Data:	Your Company Name	Maximum of 30 characters. 1
	Senders Name	Maximum of 30 characters. 1
	Senders Title	Maximum of 30 characters. 1

¹ If the entry exceeds the number of characters allowed "ERROR 74" will be displayed, followed by a question mark. Re-enter the data shortened to the correct length.

STATEMENTS

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "STATEMENTS" (f_5).
- 2. When "ENTER YOUR COMPANY NAME?" is displayed:
 - a. Enter: The name of the company sending the statement.
 - b. Press: EXECUTE.
- 3. When "ENTER SENDERS NAME?" is displayed:
 - a. Enter: The name of the person sending the statement.
 - b. Press: EXECUTE.
- 4. When "ENTER SENDERS TITLE?" is displayed:
 - a. Enter: The senders title.
 - b. Press: EXECUTE.
- 5. Statements are now printed.
- 6. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "STATEMENTS" (F5)

PIERSOL ENTERPRISES

NOVEMBER 16,1973

SOLD TO: ANDERSONS DAIRY 232 ST JAMES STREET LUPTON, CO 82547 SHIP TO: ANDERSONS DAIRY 232 ST JAMES STREET LUPTON, CO 82547

DEAR SIR:

TOTAL

PER THE ATTACHED DOCUMENTS, PLEASE REMIT THE FOLLOWING:

YOUR PURCHASE ORDER NUMBER: 4569 INVOICE NUMBER: 5000

PRICE OF GOODS 265.32 FREIGHT 12.00 SERVICE 5.52 CITY TAX 5.31 STATE TAX 7.96 TOTAL 297.11 LESS 1.00% DISCOUNT IF PAID IN 10 DAYS 2.72

TERMS: 1.00% 10 DAYS, NET 30 DAYS FROM DATE OF STATEMENT.

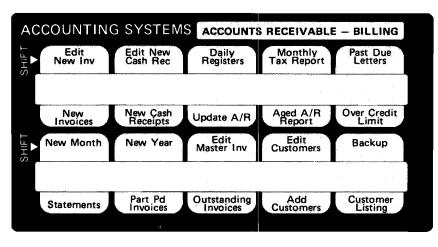
294.39

FINANCE CHARGE: 1.20% PER MONTH(14.40% ANNUAL) WILL BE ADDED TO ALL PAST DUE ACCOUNTS.

VERY TRULY YOURS,

K.P.PIERSOL CONTROLLER

PART PD INVOICES



DESCRIPTION:

This program prints information on the customers who have made partial payment to an invoice. The printing speed may appear erratic because each outstanding invoice is checked for partial payment but only those with a partial payment are printed.

PART PD INVOICES USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "PART PD INVOICES" (f $_{\rm 6}$)
- 2. The program is finished when "SELECT KEY" is displayed.

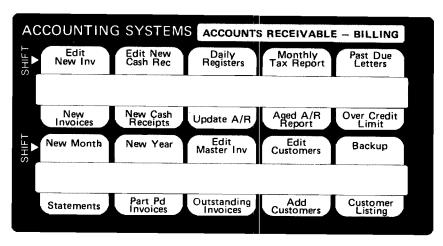
PRESS THE ACCOUNTING SYSTEMS KEY LABELED "PART PD INVOICES" (F6)

PARTIALLY PAID INVOICES NOVEMBER 16,1973

CUSTOMER NUMBER	IMVOICE NUMBER	AMOUHT BILLED	AMOUNT PAID	DATE PAID	ADJUST- MENTS	FINANCE CHARGE	BALAMCE DUE
		1000 1000 1000 1000 1000		0.0 4.01 MD 10.1	And the best off the con-	7-10 dept. 12 to 100 dept. 100	
1040 1080 1090 1140	2500 2564 4002 1250	706.25 905.77 160.24 581.02	60.00	11/15/73	-0.77 -0.24	17.51 10.51 8.60 17.57	598.66 290,51 100.00 517.57
1170	1500	683.50	600.00	11/12/73	-0.56	43.80	126.30
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AL 30	36.78	1491.02	1	.51 8	9.49	1633.74



OUTSTANDING INVOICES



DESCRIPTION:

This program prints the outstanding invoices from the master invoice file.

OUTSTANDING INVOICES USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled ''OUTSTANDING INVOICES'' (f $_{7}$).
- $2_{\cdot\cdot}$ "SELECT KEY" is displayed when the program is finished.

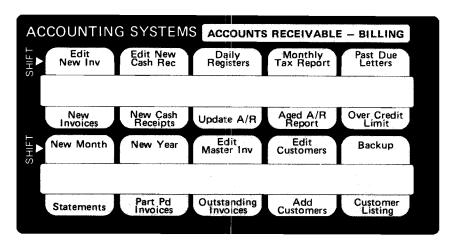
PRESS THE ACCOUNTING SYSTEMS KEY LABELED "OUTSTANDING INVUICES: (AT)

OUTSTANDING INVOICES NOVEMBER 16,1973

CUSTOMER	INVOICE	DATE	TOTL AMT	PARTIAL	ADJUST-	FINANCE	BELANCE
NUMBER	NUMBER		BILLED	AMT PD	MENTS	CHARGE	DUE
100 100 100 100 103 103 105 105				man exercise they have the best			
1000	5000	11/16/73	297.11	0.00	8.60	0.00	1971 (*
1020	3000	10/01/73	26.50	0.00	9.68	0.00	26. 36
1030	1526	08/15/73	695.77	0.00	+5.77	42.51	702. 31
1030	2589 2589	10/02/73	601.05 706.25	9.00 9.00 125.80	8.98 8.68	36.63 12.61	607.04 508.44
1080	2564	10/13/73	905.77	625.00	-6.77	10151	190151
1090	4002	11/12/73	160.24	60.00	-6.24	2.98	190155
1120	1759	06/30/73	265.00	9.60	0.06	0.68	
1140	1259	08/25/73	581.02	81.82	0.00	17.57	
1 1 40	1260	10/15/73	661.00	0.00	0.40	U.UU	561.69
1 1 40	2589		591.00	0.68	0.60	U.UU	591.88
1170	1500	08/13/73	683.50	689.20	-0.35	40.86	126.60
1200	5002	11/15/73	285.29	9.00	8.86	0.00	285.24
1290	4003	11/12/73	185.14	8.60	8.88	0.46	185.55
1310	5001	11/16/73	55.67	9.88	0,88	21.00	
	701	"AL.	6700.31	1491.02	77	166.99	5371.34



ADD CUSTOMERS



DESCRIPTION:

This program allows the user to add customers to the customer file. Each new customer number is compared to the existing customer file to insure that no duplicate customer numbers are entered. After all new customers are entered, the file is sorted by customer number.

A maximum of 800 customers can be stored on the customer file. It is recommended that this program be run in ''print all'' mode in order to have a printed copy of the actual entries. This may take up to one hour with 800 customers.

(ADD CUSTOMERS - Continued)

Acceptable Data:

Customer Number Customer Name Customer Street Customer City Customer State Customer Zip Code Ship To Name Ship To Street Ship To City Ship To State . Ship To Zip Code Credit Limit Tax Status 🚓 🧨 City Tax Rate State Tax Rate Personalia.

Maximum of 8 digits. 1

Maximum of 28 characters. 2

Maximum of 28 characters. 2

Maximum of 28 characters. 2

Maximum of 2 characters. 2

Maximum of 5 characters. 2

Maximum of 28 characters. 2

Maximum of 26 characters. 2

Maximum of 5 characters. 2

Maximum of 5 characters. 2

Greater than or equal to 0.1

Either 0 or 1. 1

Greater than or equal to 0.1

Greater than or equal to Ø.1 .

'If any of the above capabilities are exceeded, "ERROR, RE-ENTER (User Name)?" will be displayed. If the user enters an alphanumeric item to a question asking for a numeric item, a question mark will appear in the display. Re-enter the item as a numeric.

²For alphanumeric entries, if the entry exceeds the number of characters allowed, "ERROR 74" will be displayed, followed by a question mark. Re-enter the data shortened to the correct length.

ADD CUSTOMERS

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "ADD CUSTOMERS" (f 8).
- 2. When "ENTER CUSTOMER NUMBER (Ø TO END)?" is displayed:
 - a. Enter: The customer number.
 - b. Press: EXECUTE.

Note: To end data entry to the customer file:

- a. Enter: Ø.
- b. Press: EXECUTE.
- c. Go to step 18.

The customer number entered is checked against the customer file to insure that duplicate customer numbers are not entered. If the customer number is a duplicate:

- a. "(Customer Number) ALREADY ON THE CUSTOMER FILE" is printed.
- b. Go to step 2.
- 3. When "ENTER CUSTOMER NAME?" is displayed:
 - a. Enter: The customer's name.
 - b. Press: EXECUTE.
- 4. When "ENTER CUSTOMER STREET?" is displayed:
 - a. Enter: The street number and the street name.
 - b. Press: EXECUTE.
- 5. When "ENTER CUSTOMER CITY?" is displayed:
 - a. Enter: The customer's city.
 - b. Press: EXECUTE.
- 6. When "ENTER CUSTOMER STATE?" is displayed:
 - a. Enter: The two character abbreviation for the customer's state.
 - b. Press: EXECUTE.
- 7. When "ENTER CUSTOMER ZIP CODE?" is displayed:
 - a. Enter: The zip code.
 - b. Press: EXECUTE.
- 8. When "ENTER SHIP TO NAME?" is displayed:
 - a. Enter: The name of the person to receive the goods.
 - b. Press: EXECUTE.
 - c. Go to step 9.

Note: If the name and address of this person is the same as the customer name and address entered in steps 3 through 7:

a. Enter: SAME

(ADD CUSTOMERS - Continued)

- b. Press: EXECUTE
- c. Go to step 13.
- 9. When "ENTER SHIP TO STREET?" is displayed:
 - a. Enter: The street number and the street name of the person receiving the goods.
 - b. Press: EXECUTE.
- 10. When "ENTER SHIP TO CITY?" is displayed:
 - a. Enter: The city of the person receiving the goods.
 - b. Press: EXECUTE.
- 11. When "ENTER SHIP TO STATE?" is displayed:
 - a. Enter: The state the goods are to be shipped to.
 - b. Press: EXECUTE.
- 12. When "ENTER SHIP TO ZIP CODE?" is displayed:
 - a. Enter: The zip code.
 - b. Press: EXECUTE.
- 13. When "ENTER CREDIT LIMIT?" is displayed:
 - a. Enter: The customer's credit limit.
 - b. Press: EXECUTE.
- 14. When "ENTER TAX STATUS?" is displayed:
 - a. Enter: Ø if the customer is exempt from paying taxes.
 - or: If the customer must pay taxes, enter 1.
 - b. Press: EXECUTE.
- 15. When "ENTER CITY TAX RATE?" is displayed:
 - a. Enter: The tax rate for the customer's city.

For example: If the rate is 3%, enter 3.

- b. Press: EXECUTE.
- 16. When "ENTER STATE TAX RATE?" is displayed:
 - a. Enter: The tax rate for the customer's state.

For example: If the rate is 3%, enter 3.

- b. Press: EXECUTE.
- 17. Go to step 2.
- 18. After all the customers are entered (Ø is entered as customer number) or 800 customers are in the customer file, the customer file is sorted by customer number.
- 19. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "ADD CUSTOMERS" (F8)

```
GET"BILL:",1,1
ADD CUSTOMERS
ENTER CUSTOMER
```

ENTER CUSTOMER NUMBER(0 TO END)?1000
ENTER CUSTOMER NAME?ANDERSONS DAIRY
ENTER CUSTOMER STREET?232 ST JAMES STREET
ENTER CUSTOMER CITY?LUPTON
ENTER CUSTOMER STATE?CO
ENTER CUSTOMER ZIP CODE?82547
ENTER SHIP TO NAME?SAME
ENTER CREDIT LIMIT?500

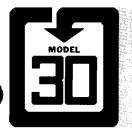
ENTER TAX STATUS?1 ENTER CITY TAX RATE?2 ENTER STATE TAX RATE?3

ENTER CITY TAX RATE?2 ENTER STATE TAX RATE?3

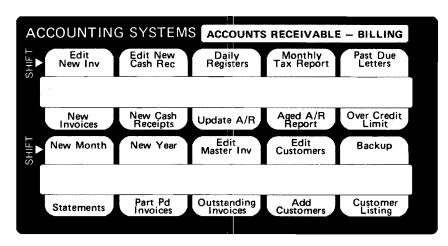
ENTER CUSTOMER NUMBER(0 TO END)?1010
ENTER CUSTOMER NAME?HARRYS GYM SUPPLIES
ENTER CUSTOMER STREET?3 BUTTERFIELD AVENUE
ENTER CUSTOMER CITY?LOVELAND
ENTER CUSTOMER STATE?CO
ENTER CUSTOMER ZIP CODE?80537
ENTER SHIP TO NAME?ARMSTRONGS GYM
ENTER SHIP TO STREET?S6 VAULT DRIVE
ENTER SHIP TO CITY?LOVELAND
ENTER SHIP TO STATE?CO
ENTER SHIP TO ZIP CODE?80537
ENTER CREDIT LIMIT?450
ENTER TAX STATUS?1

ENTER CUSTOMER NUMBER(0 TO EMD)?0

SELECT KEY



CUSTOMER LISTING





DESCRIPTION:

This program prints the customer number, sold to customer name and address, credit limit and year-to-date billed totals for each customer in the customer file.

CUSTOMER LISTING USER INSTRUCTIONS;

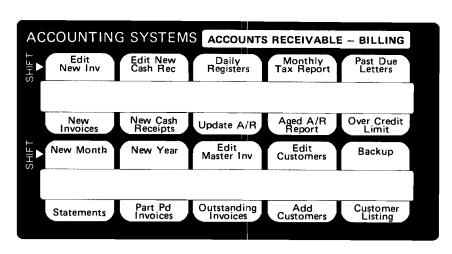
- 1. Press: The accounting systems key labeled "CUSTOMER LISTING" (f $_9$).
- 2. "SELECT KEY" is displayed when the program is finished.

RESS THE ACCOUNTING SYSTEMS KEY LABELED "CUSTOMER LISTING" (F9)

CUSTOMER FILE LISTING NOVEMBER 16-1973

CUSTOMER NUMBER	CUSTOMER NAME	CREDIT LIMIT	YTD SALES	
		HID AID THE MAN AND THE	200 (00) Mod 100 105	
1000	AMDERSONS DAIRY 232 ST JAMES STREET LUPTON CO: 82547	500.00	297.11	
1010	HARRYS GYM SUPPLIES 3 BUTTERFIELD AVENUE LOVELAND CO, 80537	450.00	0.00	
1020	ASMUS BOOK NOOK 1408 SKULINE DRIVE FORT COLLINS CO, 80521	300.00	302.50	
1030	BAKERS BEVERAGES 2010 DEL NORTE LOVELAND CO, 80537	300.00	501.17	
1848	BARNEY'S BOUTIQUE 3313 BANYON AVENUE LOVELAND CO, 80537	400.00	653.27	
1050	BASHFORD BROOMS 135 SW WASHINGTON LOVELAND CO, 80537	250.00	636.94	
1060	BEEHIVE CANDLE SHOP 2219 SUFFOLK FORT COLLINS CO: 80521	350.00	756.07	
1070	BLASS GLASS FACTORY 2243 FLEMING DRIVE LOVELAND CO: 80537	300.00	628 . 95	
1080	BODE'S BORDING HOUSE 36 ANGLEWOOD DRIVE LOVELAND CO, 80537	500.00	415.68	

MODEL



DESCRIPTION:

This program allows the user to edit the new invoice file. If any customer numbers or invoice numbers are changed, the file is sorted by customer number - invoice number after the edit is finished. Also, when a customer number is changed, the customer file is checked to insure that the customer number entered is valid. The sorting may take up to 10 minutes for 100 new invoices.

(EDIT NEW INV - Continued)

Acceptable Data:

Invoice Number

Customer Number

Date $(M/D/Y, \emptyset \text{ for today})$

Maximum of 8 digits. 1

Maximum of 8 digits. 1

Maximum of 10 characters Month/

Day/Year or Ø.2

Freight
Service
Discount %

Purchase Order Number

Finance %

Greater than or equal to zero.¹
Greater than or equal to zero.¹
Greater than or equal to zero.¹

Maximum of 14 characters or digits. 2

Greater than or equal to zero.1

¹ If the above capabilities are exceeded, "ERROR, RE-ENTER (User Name)" will be displayed followed by a question mark. Also, if the user enters an alphanumeric item to a question requesting a numeric response, a question mark is displayed. Re-enter the numeric item in either case.

² If the entry exceeds the number of characters allowed, "ERROR 74" will be displayed, followed by a question mark. Re-enter the item in shortened form. If a non-reasonable date is entered then "ERROR RE-ENTER (User Name)" is displayed. Enter the date correctly. Non-reasonable is a month that is not 1 to 12, or a day that is not 1 to 31, or a year that is not 70 to 99.

EDIT NEW INV

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "EDIT NEW INV" (Shift f 0).
- 2. When "CUSTOMER NUMBER (Ø TO END)?" is displayed:
 - a. Enter: The customer number of the invoice to be edited.
 - b. Press: EXECUTE.

NOTE: To end the edit program:

- a. Enter: Ø
- b. Press: EXECUTE
- c. Go to step 8.
- 3. When "INVOICE NUMBER?" is displayed:
 - a. Enter: The invoice number of the invoice to be edited.
 - b. Press: EXECUTE.

If the customer number - invoice number combination is not on the file:

- a. "(Customer Number Invoice Number) NOT ON THE FILE" is printed.
- b. Go to step 2.
- 4. The information related to the specified customer number invoice number combination (ITEM: and VALUE:) is printed.
- 5. When "PROPER INVOICE? YES/NO/DELETE?" is displayed:

either:

- a. Enter: Y for yes, if this is the invoice to be edited.
- b. Press: EXECUTE.
- c. Go to step 6.

or:

- a. Enter: N for no, if this is not the invoice to be edited.
- b. Press: EXECUTE.
- c. Go to step 2.

or:

- a. Enter: D for delete, if this is the invoice to be deleted.
- b. Press: EXECUTE.
- c. Go to step 2.
- 6. When "ITEM TO EDIT (Ø TO END)?" is displayed:
 - a. Enter: The name of the item (from the item column) you wish to edit.
 - b. Press: EXECUTE.

(EDIT NEW INV - Continued)

NOTE: To end the editing of the current invoice:

- a. Enter: Ø
- b. Press: EXECUTE.
- c. Go to step 2.

If you misspell the item name or if the item name is not on the item list:

- a. "(Item Name) NOT ON THE FILE, RE-ENTER THE ITEM NAME" is printed.
- b. Go to step 6.
- 7. When "ENTER (Item Name)?" is displayed:
 - a. Enter: The new value for the item.
 - b. Press: EXECUTE.
 - c. Go to step 6.

If the customer number is changed, the new customer number is checked with the customer file to verify that the customer number is valid. If the customer number is invalid:

- a. "(Customer Number) INVALID CUSTOMER" is printed.
- b. Go to step 7.
- 8. If any invoices were deleted:
 - a. The new invoice file is modified to remove the invoice to be deleted.
 - b. Go to step 9.
- 9. If any customer numbers or invoice numbers were changed:
 - a. The new invoice file is sorted by customer number invoice number.
- 10. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "EDIT NEW INVOICES" (SH]F[F0)

GET"BILL33",1,1

EDIT NEW INVOICES

CUSTOMER NUMBER(0 TO END)?1310 INVOICE NUMBER?5001

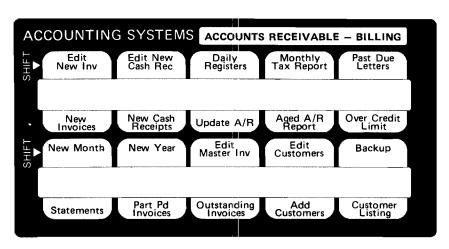
TEM	VALUE:
PURCHASE ORDER NO	1236
INVOICE NUMBER	5001
CUSTOMER NUMBER	1310
DATE BILLED	11/16/73
BILL AMOUNT	45.12
FREIGHT	5.65
SERVICE	Ø
DISCOUNT %	3
FINANCE %	1

PROPER INVOICE? YES/MO/DELETE?Y
ITEM TO EDIT (0 TO END)?SERVICE
ENTER SERVICE?2.65
ITEM TO EDIT (0 TO END)?DISCOUNT %
ENTER DISCOUNT %?1
ITEM TO EDIT (0 TO END)?0

CUSTOMER NUMBER(0 TO END)?0 SELECT KEY



EDIT NEW CASH REC



DESCRIPTION:

This program allows the user to edit the new cash receipts file. If any customer number or invoice numbers are changed, the file is sorted by customer number, invoice number after the edit is finished. Also, if either a customer number or invoice number is changed, the file is compared with the master invoice file to insure that the new customer number - invoice number combination is valid. The sorting may take up to 10 minutes for 100 new cash receipts.

(EDIT NEW CASH REC - Continued)

Acceptable Data: Invoice Number Maximum of 8 digits.

Customer Number Maximum of 8 digits. Adjustment Positive, negative or zero. 1

Date (M/D/Y, \emptyset for today)

Maximum of 10 characters

Month/Day/Year or \emptyset .

Cash Received Greater than or equal to zero. 1

¹ If the above capabilities are exceeded, "ERROR, RE-ENTER (User Name)" will be displayed. Also, if the user enters an alphanumeric item to a question requesting a numeric response, a question mark is displayed. Re-enter the numeric item in either case.

² If the above capabilities are exceeded, "ERROR 74" will be displayed, followed by a question mark.

Re-enter the item shortened to the correct length. If a non-reasonable date is entered, then "ERROR,

RE-ENTER (User Name)" is displayed. Enter the date correctly. Non-reasonable is a month that is

not 1 to 12 or a day that is not 1 to 31 or a year that is not 70 to 99.

EDIT NEW CASH REC

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "EDIT NEW CASH REC" (Shift f 1).
- 2. When "CUSTOMER NUMBER (Ø TO END)?" is displayed:
 - a. Enter: The customer number of the invoice to be edited.
 - b. Press: EXECUTE.

NOTE: To end the edit program:

- a. Enter: Ø
- b. Press: EXECUTE.
- c. Go to step 8.
- 3. When "INVOICE NUMBER?" is displayed:
 - a. Enter: The invoice number of the invoice to be edited.
 - b. Press: EXECUTE.

If the customer number - invoice number combination is not on the file:

- a. "(Customer Number Invoice Number) NOT ON THE FILE" is printed.
- b. Go to step 2.
- 4. The information related to the specified customer number invoice number combination (ITEM: and VALUE:) is printed.
- 5. When "PROPER INVOICE? YES/NO/DELETE?" is displayed.

either:

- a. Enter: Y for yes, if this is the invoice to be edited.
- b. Press: EXECUTE.
- c. Go to step 6.

or:

- a. Enter: N for no, if this is not the invoice to be edited.
- b. Press: EXECUTE.
- c. Go to step 2.

or:

- a. Enter: D for delete, if this is the invoice to be deleted.
- b. Press: EXECUTE.
- c. Go to step 2.
- 6. When "ITEM TO EDIT (Ø TO END)?" is displayed:
 - a. Enter: The name of the item (from the item column) you wish to edit.
 - b. Press: EXECUTE.

NOTE: To end the editing of the current invoice:

- a. Enter: Ø
- b. Press: EXECUTE.
- c. Go to step 2,

(EDIT NEW CASH REC - Continued)

If you misspell the item name or if the item name is not on the item list:

- a. "(Item Name) NOT ON THE FILE, RE-ENTER THE ITEM NAME" is printed.
- b. Go to step 6.
- 7. When "ENTER (Item Name)?" is displayed:
 - a. Enter: The new value for the item.
 - b. Press: EXECUTE.
 - c. Go to step 6.

If either an invoice number or a customer number is changed, the new combination of invoice number and customer number is checked with the master invoice file to verify that the combination is valid. If the invoice number - customer number is invalid:

- a. "(Invoice Number) INVALID INVOICE" or "(Customer Number) INVALID CUSTOMER" is printed.
- b. Go to step 7.
- 8. If any invoices were deleted:
 - a. The new cash receipts file is modified to remove the invoice to be deleted.
 - b. Go to step 9.
- 9. If any customer number or invoice number were changed:
 - a. The new cash receipts file is sorted by customer number invoice number.
- 10. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "EDIT NEW CASH REC" (SHIFT F1)

GET"81LL35",1,1

EDIT NEW CASH RECEIPTS

CUSTONER NUMBER (0 TO EMD)?1080 INVOICE NUMBER?2564

ITEM:
INVOICE NUMBER
CUSTOMER HUMBER
ADJUSTMENTS
DATE PAID
CASH RECEIVED

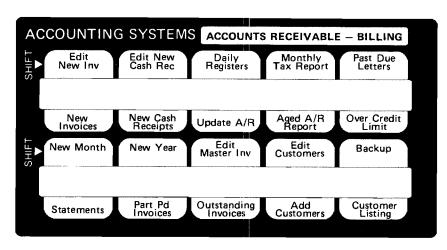
VALUE: 2564 1880 0 11/16/73

625

PROPER INVOICE? YES/NO/DELETE?Y
ITEM TO EDIT (0 TO END)?ADJUSTMENTS
ENTER ADJUSTMENTS?-.77
ITEM TO EDIT (0 TO END)?0

CUSTOMER NUMBER (0 TO END)?0 SELECT KEY MODEL

DAILY REGISTERS



DESCRIPTION:

This program prints the contents of the new invoice file and the new cash receipts file. The new invoice transaction register excludes taxes.

DAILY REGISTERS USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "DAILY REGISTERS" (Shift f $_{\rm 2}$).
- $\mathbf{2}_{\cdot}$ "SELECT KEY" is displayed when the program is finished.

RESS THE ACCOUNTING SYSTEMS KEY LABELED "DAILY REGISTERS" (SHIFT F2)

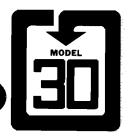
DAILY INVOICE TRANSHCTION REGISTER (EXCLUDES SALES TAX) NOVEMBER 16,1973

CUSTOMER NUMBER	IMVOICE MUMBER	BILL AMOUNT	FREIGHT	SERVICE	DATE	DISC PERC
1000 1200 1310	5000 5002 5001	265.32 235.65 45.12	12.00 12.50 5.65	23.00	11/16/73 11/15/73 11/16/73	1.00 1.00 1.00
	TOTAL	546.09	30.15	32.17		

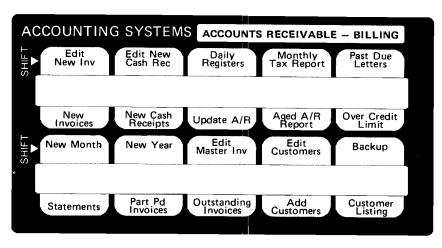


CASH RECEIPTS TRANSACTION REGISTER NOVEMBER 16,1973

CUSTOMER NUMBER	INVOICE NUMBER	ADJUST- MENTS ======	IATE FAID	CASA RECEIVED
1020 1080 1090	3698 2564 40 02	0.00 -0.77 -0.24	11/16/73 11/15/73 11/16/73	1636.25 625.00 60.00
	TOTAL	-1.01		2371.25



MONTHLY TAX REPORT



DESCRIPTION:

This program allows the user to obtain a report of the month-to-date totals for each customer. The customer file is sorted by customer state and customer city. The report is subtotaled by the state and city. The sorting may take about one hour for 800 customers.

MONTHLY TAX REPORT USER INSTRUCTIONS:

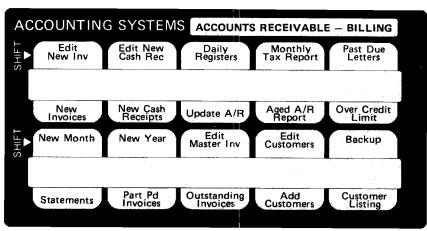
- 1. Press: The accounting systems key labeled "MONTHLY TAX REPORT" (Shift f_3).
- 2. The program is complete when "SELECT KEY" is displayed.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "MONTHLY TAX REPORT" (SHIFT F3)

MONTHLY TAX REPORT NOVEMBER 16,1973

CUSTOMER NAME	SALES	FREIGHT	SERVICE	CITY	AXES STATE
GARLON'S GARAGE	296.00	9.00	2.00	15.42	23.13
ARAPAHOE HEIGHTS	296.00	9.00	2.09	15.42	23.13
CONNELL PIZZA PALACE	264.00	8.00	8.00	15.08	22.62
FORBES FUN SHOP	118.00	18.00	1.00	14.40	21.60
BROOMFIELD	382.00	26.00	9.00	29.48	44.22
EAGLE'S BIRD STORE	521.65	14.50	25.00	19.53	25.76
DENVER	521.65	14.50	25.00	19.53	25.76
BEEHIVE CANDLE SHOP	135.00	6.00	8.90	8.60	12.90
CHURCHILL FORMS	139.00	7.00	3.00	9.94	14.91
ASMUS BOOK NOOK	53.00	7.00	10.00	1.58	2.37
FORT COLLINS	327.00	20.00	21.00	20.12	30.16
HARRYS GYM SUPPLIES BASHFORD BROOMS BARNEY'S BOUTIQUE BLASS GLASS FACTORY BODE'S BORDING HOUSE BRADEN'S ART SHOP FRANKLIN STOVES GUERRERO FAX DODGE HELLER SPORT SHOP BAKERS BEVERAGES LCVELAND	0.00 127.00 137.00 108.00 73.00 92.00 145.00 155.12 92.00	0.00 4.00 0.00 18.00 17.00 12.00 15.00 12.65 12.00	0.00 10.00 1.00 4.00 11.00 13.00 13.00 13.00 665	0.00 1.04 6.48 1.00 12.64 12.58 12.58 12.20 44.32	2.96 1.50 9.75 1.50 18.97 18.97 18.97 3.18 3.18 3.18
ANDERSONS DAIRY	265.32	12.00	5.52	5.31	7.96
LUPTON	265.32	12.00	6.52	5.31	7.96
CO	2858.09	179.15	125.17	134.18	197.70
TOTAL	2858.09	179.15	125.17	134.18	197.73

MODEL



DESCRIPTION:

This program determines which invoices are past due based on the past due date entered by the user. It calculates a finance charge and prints a past due letter for each customer with one or more past due invoices.

The user needs to establish a particular date each month to generate the past due letters. Each time the program is run, it calculates a finance charge on all past due invoices. It is therefore, important that the program is run only once a month to avoid charging more than one finance charge per month. If, for some reason, past due letters were not generated for a particular month, the system provides the user the ability to calculate the finance charge for the missed month providing that the invoice is still on the master invoice file. The procedure involves entering "Todays Date" and the "Past Due Date" that would have normally been entered for the month missed.

The procedure for generating past due letters and the finance charge requires three dates; the date billed, already stored within the system, the "Past Due Date" and "Todays Date" both entered by the user. The user is asked to enter the "Past Due Date", that is, the date in which most of the invoices should be paid and "Todays Date", the date in which the past due letters are to be processed.

The system first checks to determine which invoices were billed before the past due date. The date billed for all of these invoices is then compared with todays date and a past due letter is generated for those invoices that are 30 or more days delinquent. If a finance charge was specified upon origination of the invoice it is calculated as follows:

Monthly Finance Charge % x Outstanding Balance = Finance Charge 1.5% x 500.00 = 7.50

(PAST DUE LETTERS - Continued)

The new outstanding balance for this invoice becomes the old outstanding balance plus the monthly finance charge. This finance charge is added to the master invoice file automatically. However, although the finance charge is added to the invoice on the master invoice file, it will not be reflected in the aging portion of the "Aged Accounts Receivable Report" until an update is run. It is therefore recommended that the past due letters be generated as the last operation on a particular day.

(PAST DUE LETTERS - Continued)

Acceptable Data:

Your Company Name Maximum of 30 characters.\(^1\)
Senders Name Maximum of 30 characters.\(^1\)
Senders Title Maximum of 30 characters.\(^1\)
Past Due Date Maximum of 10 characters.\(^1\)
Todays Date Maximum of 10 characters.\(^1\)
Phone Number Maximum of 20 characters.\(^1\)

¹ If the entry exceeds the number of characters allowed, "ERROR 74" will be displayed, followed by a question mark. Re-enter the data shortened to the correct length.

PAST DUE LETTERS

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "PAST DUE LETTERS" (Shift f 4).
- 2. When "ENTER YOUR COMPANY NAME?" is displayed:
 - a. Enter: The name of the company sending the letter.
 - b. Press: EXECUTE.
- 3. When "ENTER SENDERS NAME?" is displayed:
 - a. Enter: The senders name.
 - b. Press: EXECUTE.
- 4. When "ENTER SENDERS TITLE?" is displayed:
 - a. Enter: The senders title.
 - b. Press: EXECUTE.
- 5. When "ENTER PAST DUE DATE (M/D/Y)?" is displayed:
 - a. Enter: The past due date; M = Month; D = Day; Y = Year.
 - b. Press: EXECUTE.
- 6. When "ENTER TODAYS DATE (M/D/Y)?" is displayed:
 - a. Enter: The date; M = Month; D = Day; Y = Year.
 - b. Press: EXECUTE.
- 7. When "ENTER PHONE NUMBER (CODE & NO)?" is displayed:
 - a. Enter: The phone number of the person sending the letter (area code) number.
 - b. Press: EXECUTE.
- 8. Past due letters are now printed.
- 9. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "PAST DUE LETTERS" (SHIFT F4)

PIERSOL ENTERPRISES

MOVEMBER 16,1973

BALOG'S BAR 2010 DEL NORTE LOVELAND, CO 80537

DEAR SIR:

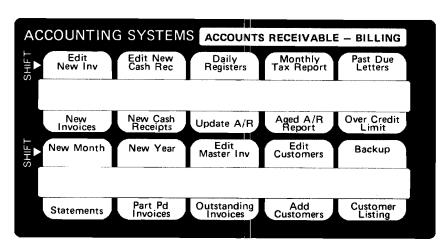
OUR RECORDS INDICATE THE FOLLOWING INVOICES ARE PAST DUE. YOUR ATTENTION TO THESE WOULD BE APPRECIATED.

IMVOICE	P.O. NUMBER	DATE	UNPAID	FINANCE	BALANCE
NUMBER		BILLED	BALANCE	CHARGE	DUE
1526	4569	08 /15/73	732.61	10.90	743.68
2589	12569	10/02/73	637.94	9.57	647.51
			TOTAL		1391.11

IF THERE ARE ANY QUESTIONS PLEASE CONTACT ME AT (383) 666-6666.

VERY TRULY YOURS,

K.P.PIERSOL CONTROLLER



DESCRIPTION:

This program sets the month-to-date billed totals for each customer on the customer file to zero. This may take about 20 minutes for 800 customers.

To avoid accidental execution of this program, the user is asked to respond affirmatively twice before the program begins execution.

NEW MONTH

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "NEW MONTH" (Shift $f_{\,5})$.
- 2. When "NEW MONTH (YES/NO)?" is displayed:

either:

- a. Enter: Y for yes to set the month-to-date totals to zero.
- b. Press: EXECUTE
- c. Go to step 3

or:

a. Enter: N for nob. Press: EXECUTE

c. Go to step 4

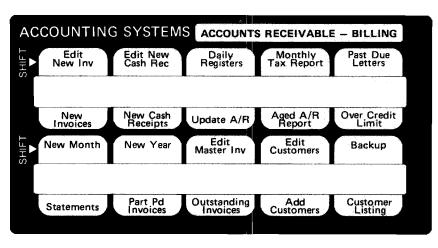
- 3. When "ARE YOU SURE (YES/NO)?" is displayed:
 - a. Enter: Y for yes or N for no
 - b. Press: EXECUTE
- 4. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED NEW MONTH (SHIFT F5)

NEW MONTH (YES/NO)?YES ARE YOU SURE (YES/NO)?YES SELECT KEY



NEW YEAR



DESCRIPTION:

This program sets the month-to-date and year-to-date billed totals for each customer on the customer file to zero. This may take about 20 minutes for 800 customers.

To avoid accidental execution of this program, the user is asked to respond affirmatively twice before the program begins execution.

NEW YEAR

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "NEW YEAR" (Shift f_6).
- 2. When "NEW YEAR (YES/NO)?" is displayed:

either:

- a. Enter: Y for yes to set the month-to-date and year-to-date billed totals to zero.
- b. Press: EXECUTE
- c. Go to step 3

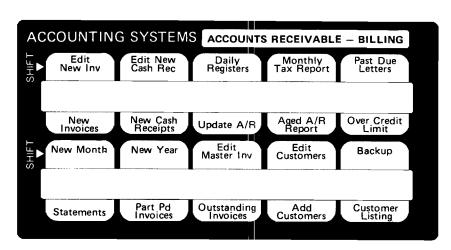
or.

- a. Enter: N for no
- b. Press: EXECUTE
- c. Go to step 4
- 3. When "ARE YOU SURE (YES/NO)?" is displayed:
 - a. Enter: Y for yes or N for no.
 - b. Press: EXECUTE
- 4. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED NEW YEAR (SHIFT F6)

NEW YEAR (YES/NO)?YES ARE YOU SURE (YES/NO)?YES SELECT KEY

EDIT MASTER INV



DESCRIPTION:

This program allows the user to edit the master invoice file. If any customer numbers or invoice numbers are changed, the file is sorted automatically after the edit is finished. This sorting may take up to one hour with 800 invoices. When a customer number is changed, the new customer number is checked against the customer file to verify the validity of the customer number.

Acceptable Data:

Customer Number

Maximum of 8 digits. 1

Invoice Number

Maximum of 8 digits. 1

Date Billed

Maximum of 10 characters.2

Date Paid

Maximum of 10 characters. 2

¹ If any of the above capabilities are exceeded, "ERROR, RE-ENTER (User Name)?" will be displayed. If the user enters an alphanumeric item to a question asking for a numeric item, a question mark will appear in the display. Re-enter the item as a numeric.

² If the above capabilities are exceeded, "ERROR 74" will be displayed followed by a question mark.

Re-enter the data shortened to the correct length.

EDIT MASTER INV

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "EDIT MASTER INV" (Shift f 7).
- 2. When "CUSTOMER NUMBER (Ø TO END)?" is displayed:
 - a. Enter: The customer number of the invoice to be edited.
 - b. Press: EXECUTE.

NOTE: To end the edit program:

- a. Enter: Ø
- b. Press: EXECUTE.
- c. Go to step 8.
- 3. When "INVOICE NUMBER?" is displayed:
 - a. Enter: The invoice number of the invoice to be edited.
 - b. Press: EXECUTE.

If the customer number - invoice number combination is not on the file.

- a. "(Customer Number Invoice Number) NOT ON THE FILE" is printed.
- b. Go to step 2.
- 4. The information related to the specified customer number invoice number combination (ITEM: and VALUE:) is printed.
- 5. When "PROPER INVOICE? YES/NO/DELETE?" is displayed:

either:

- a. Enter: Y for yes, if this is the invoice to be edited.
- b. Press: EXECUTE.
- c. Go to step 6.

or:

- a. Enter: N for no, if this is not the invoice to be edited.
- b. Press: EXECUTE.
- c. Go to step 2.

or:

- a. Enter: D for delete, if this is the invoice to be deleted.
- b. Press: EXECUTE
- c. Go to step 2.
- 6. When "ITEM TO EDIT (Ø TO END)?" is displayed:
 - a. Enter: The name of the item (from the item column) you wish to edit.
 - b. Press: EXECUTE.

NOTE: To end the editing of the current invoice:

- a. Enter: Ø
- b. Press: EXECUTE.
- c. Go to step 2.

(EDIT MASTER INV Continued)

If you misspell the item name or if the item name is not on the item list:

- a. "(Item Name) NOT ON THE FILE, RE-ENTER THE ITEM NAME" is printed.
- b. Go to step 6.
- 7. When "ENTER (Item Name)?" is displayed:
 - a. Enter: The new value for the item.
 - b. Press: EXECUTE.
 - c. Go to step 6.

If the customer number is changed, the new customer number is checked with the customer file to verify that the customer number is valid. If the customer number is invalid:

- a. "(Customer Number) INVALID CUSTOMER" is printed.
- b. Go to step 7.
- 8. If any invoices were deleted:
 - a. The master invoice file is modified to remove the invoices to be deleted.
 - b. Go to step 9.
- 9. If any customer numbers or invoice numbers were changed:
 - a. The master invoice file is sorted by customer number, invoice number.
- 10. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED 'EDIT MASTER INV' (SHIFT FI)

```
GET"BILL29",1,1
```

```
EDIT MASTER INVOICES
```

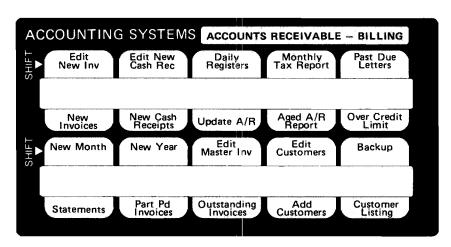
```
CUSTOMER NUMBER (0 TO END)?1170
INVOICE NUMBER?1500
ITEME
                               VALUE:
CUSTOMER HAME
                               BLASS GLASS FACTORY
PURCHASE ORDER NO
                               5478
                              2243 FLEMING DRIVE
CUSTOMER STREET
CUSTOMER CITY
                              LOVELAND
CUSTOMER STATE
CUSTOMER ZIP CODE
                               CO
                             26537
                          BLASS GLASS FROM 2243 FLEMING DRIVE LOVELAND
                              BLASS GLASS FACTORY
SHIP TO NAME
SHIP TO STREET
SHIP TO CITY
SHIP TO STATE
                              80537
SHIP TO ZIP CODE
                               1500
INVOICE NUMBER
                                1170
CUSTOMER NUMBER
                              07/13/73
DATE BILLED
                                688
BILL AMOUNT
FREIGHT
                                28.5
                                25
SERVICE
                                12
CITY TAX
STATE TAX
                                18
TOTAL AMOUNT BILLED
                               683.5
DISCOUNT %
                                6
                             -0.5
11/12/73
ADJUSTMENTS
DATE PAID
                               9
690
CASH RECEIVED
TOTAL AMOUNT PAID
DISCOUNT TAKEN
                                Ø
                                126.8
BALANCE DUE
FINANCE X
                                1.25
FINANCE CHARGE
                                43.8
<30 DAYS
                                Ø
30-59 DAYS
                                iΞ
60-89 DAYS
                                0
>=90 DAYS
                                126.8
CREDIT LIMIT
                                 aaa.
```

PROPER INVOICE? YES/NO/DELETE?Y
ITEM TO EDIT (0 TO END)?DATE BILLED
ENTER DATE BILLED (M/D/Y)?8/13/73
ITEM TO EDIT (0 TO END)?0

CUSTOMER NUMBER (0 TO END)?0 SELECT REY



EDIT CUSTOMERS



DESCRIPTION:

This program allows the user to edit the customer file. If any customer numbers are changed, the file is sorted automatically after the edit is finished. This may take up to one hour with 800 customers. Whenever a customer number is changed, the customer file is checked to insure that no duplicate customer numbers are entered.

(EDIT CUSTOMER - Continued)

Δασ	en	ta	hle	Data	٠
ACI	:eu	ıιa	DIC	Data	

Maximum of 8 digits. 1
Maximum of 28 characters. 2
Maximum of 28 characters. 2
Maximum of 28 characters.
Maximum of 2 characters.2
Maximum of 5 characters. ²
Maximum of 28 characters. ²
Maximum of 28 characters. ²
Maximum of 28 characters. ²
Maximum of 2 characters. ²
Maximum of 5 characters. ²
Greater than or equal to Ø.1
Either Ø or 1.1
Greater than or equal to Ø.1
Greater than or equal to \emptyset .

If any of the above capabilities are exceeded, "ERROR, RE-ENTER (User Name)?" will be displayed. If the user enters an alphanumeric item to a question asking for a numeric item, a question mark will appear in the display. Re-enter the item as a numeric.

² For alphanumeric entries, if the entry exceeds the number of characters allowed, "ERROR 74" will be displayed, followed by a question mark. Re-enter the data shortened to the correct length.

EDIT CUSTOMER

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "EDIT CUSTOMERS" (Shift f $_{8}$).
- 2. When "CUSTOMER NUMBER (Ø TO END)?" is displayed:
 - a. Enter: The customer number of the customer to be edited.
 - b. Press: EXECUTE.

NOTE: To end the edit program:

- a. Enter: Ø
- b. Press: EXECUTE
- c. Go to step 7.

If the customer number entered is not on the file;

- a. "(Customer Number) NOT ON THE FILE" is printed.
- b. Go to step 2.
- 3. The information related to the specified customer number (ITEM: and VALUE:) is now printed.
- 4. When "PROPER CUSTOMER? YES/NO/DELETE?" is displayed:

either:

- a. Enter: Y for yes, if this is the customer to be edited.
- b. Press: EXECUTE.
- c. Go to step 5.

or:

- a. Enter: N for no, if this is not the customer to be edited.
- b. Press: EXECUTE
- c. Go to step 2.

or:

- a. Enter: D for delete, if this is the customer to be deleted.
- b. Press: EXECUTE.
- c. Go to step 2.
- 5. When "ITEM TO EDIT (Ø TO END)?" is displayed:
 - a. Enter: The name of the item (from the item column) you wish to edit.
 - b. Press: EXECUTE.

NOTE: To end the editing of the present customer:

- a. Enter: Ø
- b. Press: EXECUTE.
- c. Go to step 2.

If you misspell the item name, or if the item name is not on the item list:

- a. "(Item Name) NOT ON THE FILE, RE-ENTER THE ITEM NAME" is printed.
- b. Go to step 5.

(EDIT CUSTOMER - Continued)

- 6. When "ENTER (Item Name)?" is displayed:
 - a. Enter: The new value for the item.
 - b. Press: EXECUTE.
 - c. Go to step 5.

If the customer number is changed, it is compared to the customer file to insure that a duplicate customer number does not exist. If the customer number is a duplicate:

- a. "(Customer Number) ALREADY ON THE CUSTOMER FILE" is printed.
- b. Go to step 6.
- 7. If any customers were deleted:
 - a. The customer file is modified to remove the customers to be deleted.
 - b. Go to step 8.
- 8. If any customer numbers were changed:
 - a. The customer file is sorted by customer number.
- 9. "SELECT KEY" is displayed when the program is finished.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED "EDIT CUSTOMERS" (SHIFT F8)

GET"BILL27",1,1

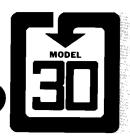
EDIT CUSTOMERS

CUSTOMER NUMBER (0 TO END)?1110

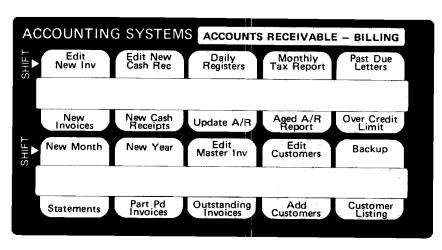
ITEM: VALUE: CUSTOMER NAME CARLSON'S CAR SHOP CUSTOMER STREET 6609 W. 32ND (RT #3) CUSTOMER CITY LOVELAND CUSTOMER STATE CUSTOMER ZIP CODE 80537 SHIP TO MAME CARLSON'S CAR SHOP SHIP TO STREET 6609 W. 32ND (RT #3) SHIP TO CITY LOVELAND SHIP TO STATE $\mathbb{C}\mathbb{O}$ SHIP TO ZIP CODE 80537 TAX STATUS 1 CUSTOMER NUMBER 1110 CREDIT LIMIT 450 CITY TAX RATE STATE THE RATE 3 MTD SALES 139 MTD FREIGHT 7 MTD SERVICE 10 MTD CITY TAX 11.8 MTD STATE TAX 17.7 YTD SALES 663.41 YTD FREIGHT 34.18 YTD SERVICE 41.12 YTD CITY TAX 58.56 YTD STATE TAX 70.8

PROPER CUSTOMER? YES/NO/DELETE?Y
ITEM TO EDIT (0 TO END)?CITY TAX RATE
ENTER CITY TAX RATE?S
ITEM TO EDIT (0 TO END)?CREDIT LIMIT
ENTER CREDIT LIMIT?500
ITEM TO EDIT (0 TO END)?0

CUSTOMER NUMBER (0 TO END)?0 SELECT KEY



BACKUP



DESCRIPTION:

This program gives the user the capability to copy the master invoice file and customer file onto a backup platter. A dual platter system is mandatory as the files are first copied to the fixed platter and then, after the backup platter is ready, they are copied back up to the backup platter. It is recommended that the backup platter contain the entire Accounts Receivable/Billing System (see Appendix A). This will allow the user to easily list the backup files as all report programs will be on the platter.

If, for some reason, it becomes necessary to recover the backup file, simply load the backup platter as the main platter, press the BACKUP key and use what was the main platter as the backup. This will copy the backup file onto the main platter.

BACKUP

USER INSTRUCTIONS:

- 1. Press: The accounting systems key labeled "BACKUP" (Shift f $_9$).
- 2. When "CORRECT PLATTER? (YES/NO)?" is displayed:

either:

- a. Enter: Y for yes if you want to perform the backup.
- b. Press: EXECUTE.
- c. Go to step 3.

or

- a. Enter: N for no if you do not want to perform the backup.
- b. Press: EXECUTE.
- c. Go to step 7.
- 3. When "INSERT BACKUP PLATTER" is displayed:
 - a. Remove the main platter.
 - b. Insert the backup platter.
 - c. Wait for the "drive ready" light to come on.
- 4. When "BACKUP PLATTER READY? (YES/NO)?" is displayed:
 - a. Enter: Y if the backup platter has been inserted and the "drive ready" light is on.
 - b. Press: EXECUTE.
- 5. When "INSERT MAIN PLATTER" is displayed:
 - a. Remove the backup platter.
 - b. Insert the main (original) platter.
 - c. Wait for the "drive ready" light to come on.
- 6. When "MAIN PLATTER READY? (YES/NO)?" is displayed:
 - a. Enter: Y if the main platter has been inserted and the "drive ready" light is on.
 - b. Press: EXECUTE.
- 7. When the program is complete, "SELECT KEY" is displayed.

PRESS THE ACCOUNTING SYSTEMS KEY LABELED BACKUP (SHIFT F9)

CORRECT PLATTER? (YES/NO)?YES
INSERT BACKUP PLATTER
BACKUP PLATTER READY (YES/NO)?YES
INSERT MAIN PLATTER
MAIN PLATTER READY (YES/NO)?YES
SELECT KEY

Appendix A

STARTUP PROCEDURE FOR A NEW PLATTER

DESCRIPTION:

This outlines the procedure for loading the Accounts Receivable/Billing system from the tape cassettes delivered with the system to a Mass Memory platter. It is assumed that the platter has been completely initialized but contains no programs. Refer to the Mass Memory Operating Manual for the initialization procedure.

It is recommended that <u>two</u> platters be loaded with the Accounts Receivable/Billing system so one can be used as a backup while the other is used for day to day operation.



STARTUP PROCEDURE FOR A NEW PLATTER USER INSTRUCTIONS:

- 1. Start with an empty platter. That is, a platter which has been initialized but contains no programs or data files. Refer to the Mass Memory Operating Manual for this procedure.
- 2. For platters that contain programs or data:
 - a. Enter: CAT
 - b. Press: EXECUTE this lists the names of the files
 - c. For each name on the catalog:
 - 1. Enter: Kill "(File Name)".
 - 2. Press: EXECUTE.
 - 3. Go to step C.
 - d. Enter: CAT.
 - e. Press: EXECUTE.
 - f. Make sure the catalog is empty.
 - g. Enter: DAVTP.
 - h. Press: EXECUTE.
- 3. Place the Accounts Receivable/Billing Tape 1 cassette into the 9830 tape transport.
 - a. Press: LOAD.
 - b. Press: EXECUTE.
- 4. When the end-of-line mark (\vdash) is displayed:
 - a. Press: RUN.
 - b. Press: EXECUTE.
- 5. When "INSERT SECOND TAPE CASSETTE" is displayed:
 - a. Wait for the first tape cassette to rewind.
 - b. Place the Accounts Receivable/Billing Tape 2 cassette into the 9830 tape transport.
 - c. When "IS SECOND TAPE READY? Y/N?" is displayed:
 - 1. Enter: Y when the second tape is in the transport.
 - 2. Press: EXECUTE.
- 6. When "A/R-BILLING LOADED" is displayed, the Accounts Receivable/Billing system has been loaded on your platter and is ready to use.
- 7. The recommended order of execution is:
 - a. Daily Startup Procedure.
 - b. Add Customers.

Appendix B

PROGRAM DESCRIPTION

DESCRIPTION

PROGRAM NAME

BILL	Asks for the date as it will appear in all reports. Loads the keys.
BKEYS	Accounting systems key definitions for Accounts Receivable/Billing.
BILL1	Adds customers to the customer file. Gets "Bill2" once all customers have been added.
BILL2	Sorts the customer file by customer number.
BILL3	Adds new invoices into the daily invoice file. Prints the control totals for the user's verification. Gets "Bill4" after all invoices have been added.
BILL4	Sorts the daily invoice file by customer number primarily, and invoice number secondarily.
BILL5	Adds new cash receipts into the daily cash receipts file. Control totals are printed for the user's verification. Gets "Bill6" after all cash receipts have been added.
BILL6	Sorts the daily cash receipts file by customer number primarily and by invoice number secondarily.
BILL7	The daily invoice file is updated to print customer information, ship to information, credit limit into the daily invoice file. City tax, state tax, remaining balance, and total amount billed are also calculated and printed into the file. Gets "Bill8" after execution.
BILL8	Merges the daily invoice file with the master invoice file. Gets "Bill9" after execution.
BILL9	Updates the master invoice file with the daily cash receipts file to update total amount paid, adjustments, and remaining balance. This program also determines whether a customer took the discount, paid the invoice in part, or paid the invoice in full. Gets "Bill10" automatically.
BILL1Ø	Modifies the master invoice file to calculate the latest accounts receivable information (< 30 days, 30 - 59 days, 60 - 89 days, $> = 90$ days, and total out). Deletes invoices with remaining balance = \emptyset . Gets "Bill11" automatically.

PROGRAM NAME	DESCRIPTION
BILL11	Updates the customer file with the daily invoice file to update the month-to-date and the year-to-date billed totals. Gets "Bill12" automatically.
BILL12	Resets the system for the next run. Zeros out the daily invoice file (DINV1) and the daily cash receipts file (DCREC1). Copies "CUST2" to "CUST1" and copies "MINV2" to "MINV1" so that both files contain the current data. Gets "Bill16" to list the daily registers.
BILL13	Aged Accounts Receivable Report. Lists the current information in < 30 days, $30 - 59$ days, $60 - 89$ days, $> = 90$ days and total out.
BILL14	Lists information about the customers who have exceeded their credit limit.
BILL15	Lists the daily cash receipts file.
BILL16	Lists the daily invoice registers. Gets "Bill15" automatically.
BILL17	Lists the outstanding invoices.
BILL18	Lists information on the customers who have made partial payment to an invoice.
BILL19	Prints a statement of the amount billed, freight, service, taxes, terms of the invoice, and finance charge for each invoice in the daily invoice file.
BILL2Ø	Determines which invoices are past due. Calculates a finance charge and a new remaining balance for those invoices and prints a past due letter for each customer who has one or more past due invoices.
BILL21	Sorts the customer file by customer state primarily, and customer city secondarily. Gets "Bill22" automatically.
BILL22	Prints the month-to-date totals for each customer. The report is subtotaled by customer state and customer city.
BILL23	Lists the customers in the customer file, along with their customer number, address and credit limit.
BILL24	Lists the daily invoice transaction register - excluding sales tax. Gets "Bill15" automatically.
BILL25	Sets the month-to-date billed totals for each customer on the customer file to zero.
BILL26	Sets the month-to-date and year-to-date billed totals for each customer on the customer file to zero.
BILL27	Edits the customer file. Gets "Bill28" if customers are deleted. Gets Bill2" if any customer numbers are changed.

PROGRAM NAME

BILL30

DESCRIPTION

BILL28 Modifies the customer file to remove all customers to be deleted from the

file.

BILL 29 Two programs to edit the master invoice file. Gets "Bill31" if invoices And

are deleted. Gets "Bill32" if any customer numbers or invoice numbers

are changed.

BILL31 Modifies the master invoice file to remove all invoices to be deleted

from the file (through edit).

BILL32 Sorts the master invoice file (MINV1) by customer number and invoice

number.

BILL33 Edits the daily invoice file (DINV1). Gets "Bill34" if invoices are deleted.

Gets "Bill4" if any customer numbers are changed.

BILL34 Modifies the daily invoice file to remove all invoices that were to be

deleted from the file.

BILL35 Edits the daily cash receipts file (DCREC1). Gets "Bill36" if invoices

are deleted. Gets "Bill6" if any customer numbers or invoice numbers

are changed.

BILL36 Modifies the daily cash receipts file to remove all invoices that are

deleted from the file.

BILL37 Backup program. Copies the data from the master invoice file and the

customer file onto the fixed platter and back to another removable platter.

UPDSR 'Update program, used by "Bill7".

UPSRT Update program, used by "Bill9, Bill11".

SRTR Sorting program, gets (SRTR1). Used by "Bill2, Bill4, Bill6, Bill32".

SRTR1 Sorting program.

MRGR Merging program, gets (MRGR1). Used by "Bill8".

MRGR1 Merging program, gets (MRGR2).

MRGR2 Merging program.

Appendix C

DATA FILE DESCRIPTION

FILE NAME DESCRIPTION

CUSTOM Formatter file for the customer file and the customer file copy.

CUST1 Customer file.

CUST2 Customer file copy.

INVCR Formatter file for the master invoice files, the daily invoice files,

the daily cash receipts file and the error file.

MINV1 Master invoice file.

MINV2 Master invoice file copy.

DINV1 New invoice file.

DINV2 New invoice file copy.

DCREC1 New cash receipts file.

DCREC2 New cash receipts file copy.

ERR1 Error file.

DATE Stores todays date for reports and flag in edits.

T1, T2, T3, T4 Temporary files for sorts.

1. The two customer files have the following file format:

N(1)	Customer Number
A\$(29)	Customer Name
B\$(29)	Customer Street
C\$(29)	Customer City
D\$(3)	Customer State
E\$(6)	Customer Zip Code
F\$(29)	Ship To Name
G\$(29)	Ship To Street
H\$(29)	Ship To City
I \$(3)	Ship To State
J\$(6)	Ship To Zip Code
N(2)	Credit Limit
K\$(2)	Tax Status
N(3)	City Tax Rate
N(4)	State Tax Rate
N(5)	MTD SALES
N(6)	MTD Freight
N(7)	MTD Service
N(8)	MTD City Tax
N(9)	MTD State Tax
N(10)	YTD Sales
N(11)	YTD Freight
N(12)	YTD Service
N(13)	YTD City Tax
N(14)	YTD State Tax

2. The two master invoice files (MINV1 and MINV2), the two new invoice files (DINV1 and DINV2), the two new cash receipts files (DCREC1 and DCREC2), the error file (ERR1) have the following file format:

N(1)	Invoice Number
N(2)	Customer Number
N(3)	Date Billed
N(4)	Bill Amount
N(5)	Freight
N(6)	Service
N(7)	City Tax
N(8)	State Tax
N(9)	Total Amount Billed
N(10)	Discount Percent
N(11)	Adjustments
N(12)	Date Paid
N(13)	Cash Received
N(14)	Total Amount Paid
N(15)	Discount Taken
N(16)	Remaining Balance
N(17)	Finance Percent
N(18)	Finance Charge
A\$(29)	Customer Name
(B\$(15))	Customer Purchase Order Number
C\$(29)	Customer Street
D\$(29)	Customer City
E\$(-3)	Customer State
F\$(6)	Customer Zip Code
G\$(29)	Ship To Name
H\$(29)	Ship To Street
I\$(29)	Ship To City
J\$(3)	Ship To State
K\$(6)	Ship To Zip Code
N(19)	Current (< 30 Days)
N(20)	30 - 59 Days
N(21)	60 - 89 Days
N(22)	> = 90 Days
N(23)	Credit Limit

Appendix D

PROGRAM LISTINGS

PROGRAM LISTING:

A. Data Entry Programs:

The data entry programs (Bill1, Bill3 and Bill5) may be divided into six distinct sections. These sections are described below and annotated on the listings.

1. Program Initialization:

This section of each program dimensions variables, assigns the proper file for input, defines the subroutine to print each record, and, in the daily invoice program and the daily cash receipts program, allows input of todays date.

2. Customer Number and/or Invoice Number Verification:

This section allows for input of a customer number and/or an invoice number and subsequently checks the input for either duplication (Add Customers) or existence (New Invoices and New Cash Receipts).

3. Data Input:

This section allows for the input of the items associated with the verified customer or invoice. Any validation checks are done in this section.

4. Item Initialization:

This section defines all items that are not defined by the user from the keyboard.

5. Program Termination:

This section is entered after the final customer number or invoice number has been entered. The files are closed and a sort program is accessed.

6. Date Conversion:

In new invoices and new cash receipts, the date is entered as a string and printed on the file as a numeric. This section converts the input string (M/D/Y) to a numeric (YY.MMDD) for storage.

B. Report Programs:

The report programs may be divided into eleven distinct sections. These sections are described below and annotated on the listings.

1. Program Initialization:

This section of each program dimensions variables, assigns the proper file for the report and initializes variables.

2. Read A New Record:

This section reads the next record from the file and in the case of totaling or subtotaling checks to see if such action is necessary.

(PROGRAM LISTINGS - Continued)

3. Report Title:

This section prints the report title and the date entered in daily system startup on the first page of the report.

4. Main Calling Sequence:

This section calls the various subroutines for the report and ejects the final page of the report.

5. Page Number And Heading:

This section prints headings on each new page and page numbers starting with the second page.

6. Totals:

This section prints any totals at the end of the report.

7. New Page:

This section ejects a page and prints a dash to mark the end of the page.

8. Subtotals:

This section prints any subtotals when the subtotaling criterion has been met.

9. Print A Record:

This section prints the record read in step 2. Strings are padded with blanks so columns will be aligned and any totals or subtotals are updated.

10. Program Termination:

This section is branched to when the report is complete.

11. Date Conversion:

In reports that have dates, this section converts the stored numeric date (YY. MMDD) to a string MM/DD/YY for printing.

NEW INVOICES (BILLS)

PROGRAM INITIALIZATION 1 DIM U\$[100], V\$[100], Y\$[25], Z\$[25] 20 DIM A\$[29],B\$[15],C\$[29],D\$[29],E\$[3],F\$[6] 30 DIM G\$[29],H\$[29],I\$[29],J\$[3],K\$[6],N[23] 40 FILES **** 50 ASSIGN "DINV1",1,I 60 IF IKS THEN 100 70 PRINT "FILE NOT OPENED OR ILLEGAL PROTECTION KEY" 80 PRINT 90 STOP 100 ASSIGN "CUST1",2,I 110 IF I>2 THEN 70 120 ASSIGN "MINV1",3,I 130 IF I>2 THEN 70 140 READ #1,7;F1,U\$ 150 READ #2,7;E1 160 READ #3,7;G1 **170** T1=G1-7 180 DISP "NEW INVOICES" 190 WAIT 1500 200 IF E1=7 THEN 1580 210 GOTO 270 220 PRINT #1,F1;NE1],NE2],NE3],NE4],NE5],NE6],NE7],NE8],NE9] 230 PRINT #1;NC10],NC11],NC12],NC13],NC14],NC15],NC16],NC17],NC18] 240 PRINT #15A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$,I\$,J\$ 250 PRINT #1;K\$,N[19],N[20],N[21],N[22],N[23] 260 RETURN 270 F1=F1+1 280 IF F1 >= 108 OR F1+T1 >= 808 THEN 1550 290 DISP "ENTER TODAYS DATE (M/D/Y)"; 300 INPUT Z# 310 Z2=FNN(0) 320 IF Z2=0 THEN 290 330 A=B=C=0 340 W=0 350 U=1

360 GOTO 1000

MEW INVOICES (CONTINUED)

```
DATA INPUT
3.
370 DISP "ENTER INVOICE NUMBER (0 TO END)";
380 IMPUT NE1]
390 IF N[1]=0 THEN 1420
400 Us=""
410 IF NC13K100000000 THEN 990
420 GOTO 1000
    CUSTOMER NUMBER VERIFICATION
430 DISP "ENTER CUSTOMER NUMBER";
440 IMPUT NE21
450 IF E1=7 THEN 1580
460 E2=8
470 E4=E1
480 E3=INT(E2+ABS(E4-E2)/2)
490 READ #2,E3;A[1]
500 IF N(2)=A(1) THEN 600
510 IF E2 >= E4 THEN 570
520 IF ACIJKNE21 THEN 550
530 E4=E3-1
540 GOTO 480
550 E2=E3+1
560 GOTO 480
570 PRINT ME23" INVALID CUSTOMER"
580 PRINT
590 GOTO 430
600 U*=""
610 IF NE23K100000000 THEM 990
620 GOTO 1000
    DATA IMPUT (CONTINUED)
3.
630 DISP "ENTER DATE (M/D/Y,0 FOR TODAY)";
640 INPUT Z$
650 NE3]=FNN(0)
660 U$=""
670 IF N[3]=0 THEN 1000
680 GOTO 990
```

NEW INVOICES (CONTINUED)

```
3.
    DATA INPUT (CONTINUED)
690 DISP "ENTER BILL AMOUNT";
700 INPUT M(4)
710 U$=""
720 GOTO 990
730 DISP "ENTER FREIGHT";
740 IMPUT NESI
750 U$=""
760 GOTO 990
770 DISP "ENTER SERVICE";
780 IMPUT ME61
790 U$=""
800 GOTO 990
810 DISP "ENTER DISCOUNT %";
820 INPUT NC101
830 U$=""
840 GOTO 990
850 DISP "ENTER PURCHASE ORDER NO";
860 INPUT B$
870 U$=B$
880 IF U$=" " THEN 1000
890 IF U$[LEN(U$)]#" " THEN 920
900 Us=Us[1,LEN(Us)-1]
910 GOTO 880
920 V$=U$
930 IF LEN(V$)>14 THEN 1000
940 GOTO 990
950 DISP "ENTER FINANCE %";
960 INPUT MD171
970 U$=""
980 GOTO 990
990 U=U+1
1000 IF U=W THEN 1030
1010 W=U
1020 GOTO (U) OF 370,430,630,690,730,770,810,850,950,1090
1030 IF LEN(Us)=0 THEN 1070
1040 PRINT U#
1050 PRINT V#
1060 PRINT
1070 DISP "ERROR, RE-";
```

1080 GOTO 1020

NEW INVOICES (CONTINUED)

```
ITEM IMITIALIZATION
4. .
1090 ME73=0
1100 ME8]=0
1110 NE9J=0
1120 NC11]=0
1130 NC 12]=0
1140 MC13]=0
1150 NC 143=0
1160 NC15]=FNR(((NC4]+NC6])*NC10])/100)
1170 N[16]=0
1180 NE18]=0
1190 H[19]=0
1200 NC203=0
1210 NE21J=0
1220 NC22]=0
1230 WC23J=0
1240 0$=" "
1250 D$=" "
1260 E#=" "
1270 F$=" "
1280 G$=" "
1290 H$=" "
1300 Is=" "
1310 J*=" "
1320 K#=" "
1330 A=A+N[4]
1340 B=B+ME5]
1350 C=C+NE6J
1360 GOSUB 220
1370 F1=F1+1
1380 IF F1 >= 108 OR F1+T1 >= 808 THEN 1400
1390 GOTO 340
1400 PRINT " DAILY INVOICE FILE OR MASTER INVOICE FILE FULL"
1410 PRINT
   PROGRAM TERMINATION
S.
1420 PRINT #1,F1;END
1430 F1=F1-1
1440 READ #1,7;21,U$
1450 PRINT #1,7;F1,U$
1460 FIXED 2
1470 PRINT
```

NEW INVOICES (CONTINUED)

```
....<del>.</del>
  PROGRAM TERMINATION (CONTINUED)
1480 PRINT "CONTROL TOTALS - INVOICES"
1490 PRINT "
                TOTAL BILL AMOUNT = ";A
1500 PRINT "
                TOTAL FREIGHT = "; B
1510 PRINT "
                TOTAL SERVICE = ";C
1520 PRINT
1530 FRINT
1540 GET "BILL4",1,1
1550 PRINT "DAILY INVOICE FILE OR MASTER INVOICE FILE FULL"
1560 PRIHT
1570 GOTO 1600
1580 PRINT "CUSTOMER FILE EMPTY"
1590 PRINT
1600 DISP "SELECT KEY"
1610 END
1620 DEF FNR(Z)
1630 RETURN INT((Z+0.005)*100)/100
E,
    DATE CONVERSION
1640 DEF FMM(Z)
1650 IF Z##"0" THEN 1670
1660 RETURN Z2
1680 IF LEN(Z$)=0 THEN 1810
1690 M=INTVAL(Z$)
1700 GOSUB 1820
1710 \text{ IF LEN}(Z*)=0 \text{ THEN } 1810
1720 D=INTVAL(Z$)
1730 GOSUB 1820
1740 IF LEN(Z$)=0 THEN 1810
1750 Y=INTVAL(Z$)
1760 Y=Y-INT(Y/100)*100
1770 IF Y>99 OR Y<70 THEN 1810
1780 IF M>12 OR M<1 THEN 1810
1790 IF D>31 OR D<1 THEN 1810
1800 RETURN Y+M/100+D/10000
1810 RETURN 0
1820 FOR I=1 TO LEN(Z$)-1
1830 IF POS(Y$,Z$[[,[])=0 THEN 1850
1840 MEXT I
1850 Z$=Z$[I+1]
1860 RETURN
```

NEW CASH RECEIPTS (BILL5)

1. PROGRAM INITIALIZATION

```
1 DIM U$[100], Y$[100], Y$[25], Z$[25]
20 DIM A$[29],B$[15],C$[29],D$[29],E$[3],F$[6]
30 DIM G#[29],H#[29],I#[29],J#[3],K#[6],N[23]
40 FILES *, *, *
50 ASSIGM "DCREC1",1,1
60 IF IKS THEN 100
70 PRINT "FILE NOT OPENED OR ILLEGAL PROTECTION KEY"
80 PRINT
90 STOP
100 ASSIGN "MINV1",2,I
110 IF 1>2 THEN 70
120 ASSIGN "DINV1",3,I
130 IF I>2 THEN 70
140 DISP "NEW CASH RECEIPTS"
150 WAIT 1500
160 READ #1,7;F1,U#
170 READ #2,75E1
180 READ #3,7;G1
190 IF E1=7 AND G1=7 THEN 1500
200 GOTO 260
210 PRINT #1,F1;N[1],N[2],N[3],N[4],N[5],N[6],N[7],N[8],N[9]
220 PRINT #1; MC10], NC11], NC12], NC13], NC14], NC15], NC16], NC17], NC18]
230 PRINT #1;As,Bs,Cs,Ds,Es,Fs,Gs,Hs,Is,Js
240 PRINT #1;K*,M[19],M[20],M[21],M[22],M[23]
250 RETURN
260 F1=F1+1
280 DISP "ENTER TODAYS DATE (M/D/Y)";
290 INPUT Z#
300 Z2=FNN(0)
310 IF Z2=0 THEN 280
320 A=B=0
330 W=0
340 U=1
350 GOTO 930
```

NEW CASH RECEIPTS (CONTINUED)

CUSTOMER NUMBER - INVOICE NUMBER VERIFICATION

```
360 DISP "ENTER INVOICE NUMBER (0 TO END)";
370 IMPUT N[1]
380 IF NEI]=0 THEN 1380
390 Us=""
400 IF NC13K100000000 THEN 920
410 GOTO 930
420 DISP "ENTER CUSTOMER NUMBER";
430 IMPUT NE21
440 IF E1=7 THEN 680
450 R=2
460 T=E4=E1
470 E2=8
480 E3=INT(E2+ABS(E4-E2)/2)
490 READ #R.E3;A[1],A[2]
500 IF N[2]=A[2] THEN 570
510 IF E2 >= E4 THEN 670
520 IF AC23KMC23 THEN 550
530 E4=E3-1
540 GOTO 480
'550 E2=E3+1
560 GOTO 480
570 FOR I=E3 TO 8 STEP -1
580 READ #R, I; AC 1 ], AC 2 ]
590 IF AC21#NC21 THEN 620
600 IF AC13=NC13 THEN 750
610 MEXT I
620 FOR I=E3+1 TO T
630 READ #R, I; AC 1 1, AC 2 ]
640 IF AD23#ND23 THEM 670
650 IF AC1 J=NC1 ] THEN 750
660 MEXT I
670 IF R=3 THEN 720
680 IF G1=7 THEM 720
690 R=3
700 T=E4=G1
710 GOTO 470
720 PRINT M[2]; N[1]" INVALID CUSTOMER - INVOICE COMBINATION"
730 PRINT
740 GOTO 330
750 U$=""
760 IF NC23K100000000 THEN 920
```

770 GOTO 930

NEW CASH RECEIPTS (CONTINUED)

```
3. DATA INPUT
780 DISP "ENTER ADJUSTMENTS";
790 INPUT ME11]
800 U$=""
810 GOTO 920
820 DISP "ENTER DATE (M/D/Y)0 FOR TODAY)";
830 IMPUT Z#
840 M[12]=FNN(0)
850 U$=""
860 IF MC12]=0 THEN 930
870 GOTO 920
880 DISP "ENTER CASH RECEIVED";
890 INPUT NE13]
900 U$=""
910 GOTO 920
920 U=U+1
930 IF U=W THEN 960
940 W=U
950 GOTO (U) OF 360,420,780,820,880,1020
960 IF LEN(U$)=0 THEN 1000
970 PRINT Us
980 PRINT V$
990 PRINT
1000 DISP "ERROR: RE-";
1010 GOTO 950
  ITEM INITIALIZATION
1020 N[3]=0
1030 NE4]=0
1040 NC5J=0
1050 NC6J=0
1060 NE73=0
1070 MESJ=0
1080 NE93=0
1090 MC10J=0
1100 NE 14 J=0
1110 NC 15 ]=0
1120 NC163=0
1130 NC17]=0
```

NEW CASH RECEIPTS (CONTINUED)

```
ITEM INITIALIZATION (CONTINUED)
1140 NC 183=0
1150 NC 193=0
1160 MC20]=0
1170 NE21 ]=0
1180 NE22]=0
1190 M[23]=0
1200 B#="
1210 C$=" "
1220 Ds=" "
1230 Es=" "
1240 F#="
1250 G#=" "
1260 H$=" "
1270 [#=" "
1280 J#=" "
1290 K#=" "
1300 A=A+N[13]
1310 B=B+N[ 11]
1320 GOSUB 210
| 1330 F1=F1+1
1340 IF F1 >= 108 THEN 1360
1350 GOTO 330
1360 PRINT " DAILY CASH RECEIPTS FILE FULL"
1370 PRINT
PROGRAM TERMINATION
1380 PRINT #1,F1;END
1390 F1=F1-1
1400 READ #1,7;21,U$
1410 PRINT #1,75F1,U$
1420 FIMED 2
1430 PRINT
1440 PRINT
           "CONTROL TOTALS - CASH RECEIPTS"
1450 PRINT " TOTAL CASH RECEIPTS = ";A
1460 PRINT " TOTAL ADJUSTMENTS = ";8
1470 PRINT
1480 PRINT
```

MEW CASH RECEIPTS (CONTINUED)

```
5, ROGRAM TERMINATION (CONTINUED)
1490 SET "BILL6",1,1
1500 FRINT "EMTER DAILY INVOICES BEFORE CASH RECEIPTS"
1510 FELHT
1520 6070 1950
1530 PRINT "CASH RECEIPTS FILE FULL"
1540 PRINT
1550 DISP "SELECT KEY"
1568 END
   DATE CONVERSION
6.
1570 DEF FNN(Z)
1580 IF Z$#"0" THEN 1600
1590 RETURN 22
1600 Y#="1234567890."
1610 ]F LEN(Z$)=0 THEN 1740
1620 M=INTVAL(Z$)
1630 COSUB 1750
1640 IF LEN(Z*)=0 THEN 1740
1656 0+1919AL(Z#)
1660 40808 1750
1670 (F LEH) Z$)=0 THEN 1740
1650 "54HTVAL(Z#)
1696 (#Y-IMT(Y-100)*100
1700 : 6 7,99 OR YK70 THEN 1740
1710 1 M 12 OR MK1 THEN 1740
      . n.kl or bki THEM 1740
1720
1730 RETURN V+M/100+D/10000
1745 157484 0
1750 - 38 lei TO LENCZ#0-1
176, 1 -4:5:4x,2$[1,1])=0 THEN 1780
1776 -687 1
1756 (4) = 211 [ + 1 ]
1790 RETURN
```

ADD CUSTOMERS (BILL1)

PROGRAM INITIALIZATION 1 .. 1 DIM U#[100],V#[100] 20 DIM A\$[29],B\$[29],C\$[29],D\$[3],E\$[6],F\$[29] 30 DIM G\$[29],H\$[29],I\$[3],J\$[6],K\$[2],N[14] 40 FILES * 50 ASSIGN "CUST1",1,1 60 IF IKS THEM 100 70 PRINT "FILE NOT OPENED OR ILLEGAL PROTECTION KEY" 80 PRINT 90 STOP 100 READ #1,7;F1,U\$ 110 E1=F1 120 DISP "ADD CUSTOMERS" 130 WAIT 1500 140 GOTO 190 150 PRINT #1,F1;N[1],A*,B*,C*,D*,E*,F*,G*,H* 160 PRINT #1; [\$, J\$, N[2], K\$, N[3], N[4], N[5], N[6], N[7] 170 PRINT #1; N[8], N[9], N[10], N[11], N[12], N[13], N[14] 180 RETURN 190 F1=F1+1 200 IF F1 >= 808 THEN 2130 210 W=0 220 U=1 230 GOTO 1750 CUSTOMER NUMBER VERIFICATION 2. 240 DISP "ENTER CUSTOMER NUMBER(0 TO END)"; 250 INPUT NEIL 260 IF M[1]=0 THEN 2080 270 IF E1=7 THEN 420 280 E2=8 290 E4=E1 300 E3=INT(E2+ABS(E4-E2)/2) 310 READ #1,E3;A[1] 320 IF NC13=AC13 THEN 390 330 IF E2 >= E4 THEN 420 340 IF AC13KNC13 THEN 370

350 E4=E3-1 360 GOTO 300

ADD CUSTOMERS (CONTINUED)

```
2. CUSTOMER NUMBER VERIFICATION (CONTINUED)
370 E2=E0+1
380 GOTO 300
390 PRINT N[1]" ALREADY ON THE CUSTOMER FILE"
400 PRIHT
410 GOTO 240
420 Us=""
430 IF NC13<100000000 THEN 1740
440 GOTO 1750
  DATA IMPUT
3.
450 DISP "ENTER CUSTOMER MAME";
460 INPUT AS
470 US=8$
480 IF U$=" " THEN 1750
490 IF U$[LEN(U$)]#" " THEN 520
500 U$=U$[1,LEN(U$)-1]
510 GOTO 480
520 V#=U#
530 IF LEN(V*) >= 29 THEN 1750
540 GOTO 1740
550 DISP "ENTER CUSTOMER STREET";
560 IMPUT 8#
570 U#=B#
600 U$=U$[1,LEN(U$)-1]
610 GOTO 580
620 V$=U$
630 \text{ IF LEN(V$)} >= 29 \text{ THEN } 1750
640 GOTO 1740
650 DISP 'ENTER CUSTOMER CITY";
660 INPUT C$
670 U$=C$
680 IF Us=" " THEN 1750
690 IF U$LLEN(U$)]#" " THEN 720
700 Us=Us[1,LEN(Us)-1]
710 GOTO 680
720 V#=U#
730 IF LEN(V$) >= 29 THEN 1750
740 GOTO 1740
```

AND CUSTOMERS (CONTINUED)

```
750 DISP "ENTER CUSTOMER STATE";
 760 INPUT D$
 770 U$=D$
780 IF U$=" " THEN 1750
790 IF U$[LEN(U$)]#" " THEN 820
800 Us=Us[1,LEN(Us)-1]
810 GOTO 780
820 V$=U$
830 IF LEM(V$)#2 THEM 1750
840 GOTO 1740
850 DISP "ENTER CUSTOMER ZIP CODE";
860 INPUT E#
870 U#=E#
880 IF U#=" " THEN 1750
890 IF U%[LEN(U%)]#" " THEN 920
900 U$=U$[1,LEN(U$)-1]
910 GOTO 880
920 V*=U*
930 IF LEM(V$)#5 THEN 1750
940 GOTO 1740
950 DISP "ENTER SHIP TO NAME";
960 INPUT F#
970 H#=F#
980 IF U$#"SAME" THEN 1020
990 GOSUB 2000
1000 U=11
1010 GOTO 1740
1020 IF Us=" " THEN 1750
1030 IF U*[LEN(U$)]#" " THEN 1060
1040 Us=Us[i,LEN(Us)-1]
1050 GOTO 1020
1060 V#=U#
1070 IF LEN(Y$) >= 29 THEN 1750
1080 GOTO 1740
1090 DISP "ENTER SHIP TO STREET";
1100 INPUT G$
1110 U$=G$
1120 IF Us=" " THEN 1750
·1130 IF Us[LEN(Us)]#" " THEN 1160
1140 U$=U$[1,LEN(U$)-1]
1150 GOTO 1120
1160 V#=U#
1170 IF LEN(V*) >= 29 THEN 1750
1180 GOTO 1740
```

DATA INPUT (CONTINUED)

3.

ANT CUSTOMERS (CONTINUED)

```
3. DATA INPUT (CONTINUED)
1190 DISP "ENTER SHIP TO CITY";
1200 INPUT H$
1210 Us=H#
1220 IF U$=" " THEN 1750
1230 IF U*[LEN(U*)]#" " THEN 1260
1240 U$=U$[1,LEN(U$)-1]
1250 GOTO 1220
1260 V#=U#
1270 IF LEN(V*) >= 29 THEN 1750
1280 GOTO 1740
1290 DISP "ENTER SHIP TO STATE";
1300 IMPUT I#
1310 U$=I$
1320 IF U$=" " THEN 1750
1330 IF U$[LEN(U$)]#" " THEN 1360
1340 Us=Us[1,LEN(Us)-1]
1350 GOTO 1320
1360 V#=U#
1370 IF LEN(V$)#2 THEN 1750
1380 GOTO 1740
1390 DISP "ENTER SHIP TO ZIP CODE";
1400 INPUT J$
1410 U$=J$
1420 IF Us=" " THEN 1750
1430 IF U$[LEN(U$)]#" " THEN 1460
1440 U$=U$[1,LEN(U$)-1]
1450 GOTO 1420
1460 V$=U$
1470 IF LEN(V$)#5 THEN 1750
1480 GOTO 1740
1490 DISP "ENTER CREDIT LIMIT";
1500 INPUT NE23
1510 Us=""
1520 IF NC2]>0 THEN 1740
1530 GOTO 1750
1540 DISP "ENTER TAX STATUS";
1550 IMPUT K$
1560 U$=K$
1570 IF U$=" " THEN 1750
1580 IF U$[LEN(U$)]#" " THEN 1610
1590 Us=Us[1,LEN(Us)-1]
1600 GOTO 1570
1610 V#=U#
1620 IF LEM(V$) #1 THEN 1750
1630 GOTO 1740
```

ADD CUSTOMERS (CONTINUED)

```
3. DATA IMPUT (CONTINUED)
1640 DISP "ENTER CITY TAX RATE";
1650 IMPUT ME3]
1660 Us=""
1670 \text{ IF N(3)} >= 0 \text{ THEN } 1740
1680 GOTO 1750
1690 DISP "ENTER STATE TAX RATE";
1700 INPUT NE43
1710 U$=""
1720 IF N(4) >= 0 THEN 1740
1730 GOTO 1750
1740 U=U+1
1750 IF U=W THEN 1800
1760 W=U
1770 GOTU (U) OF 240,450,550,650,750,850,950,1090,1190,1290,1390
1780 V=U-11
1790 GOTO (V) OF 1490,1540,1640,1690,1860
1800 IF LEN(U$)=0 THEN 1840
1810 PRINT U#
1820 PRINT V$
1830 PRINT
1840 DISP "ERROR: RE-";
1850 GOTO 1770
   ITEM IMITIALIZATION
4.
1860 H[5]=0
1870 NC6J=0
1880 H[7]=0
1890 NE8J=0
1900 NE93=0
1910 NC103=0
1920 NC 11 J=0
1930 NC 12 J=0
1940 ME13]=0
1950 NC 14 J=0
1960 GOSUB 150
```

ADD CUSTOMERS (CONTINUED)

4. ITEM INITIALIZATION (CONTINUED)

```
1970 F1=F1-1
1980 IF F1 := 808 THEN 2060
1990 G0TO 210
2000 F$=A$
2010 G3=B$
2020 H$=C$
2030 I$=I$
2040 J$=E$
2050 RETURN
2060 PRINT " CUSTOMER FILE FULL"
2070 FRINT
```

5. PROGRAM TERMINATION

```
2080 PRINT #1,F1;END

2090 F1=F1-1

2100 READ #1,7;Z1,U$

2110 FRINT #1,7;F1,U$

2120 GET "BILL2",1,1

2130 FRINT "CUSTONER FILE FULL"

2140 FRINT

2150 DISP "SELECT KEY"

2160 END
```

AGED AZR REPORT (BILL13)

```
PROGRAM INITIALIZATION
1 DIM A*[29], B*[15], C*[29], D*[29], E*[3], F*[6]
20 PIN G$[29], H$[29], I$[29], J$[3], K$[6], N[23]
30 DIM Z#[72],8#[72]
40 DIM U*[80],V*[80],W*[80],X*[30],Y*[80]
50 DISP "AGED AZR REPORT"
60 WAIT 1590
70 FILES *, DATE
80 ASSIGN "MINV1",1,1
          THEN 130
90 IF I(3
          "MINVI NOT OPENED OR ILLEGAL PROTECTION KEY"
100 PRINT
110 PRINT
120 STOP
130 READ #1,7;R2,Z$
140 S0=S1=S2=S3=S4=S5=36=S7=88=S9=T0=T1=T2=T3=T4=T5=T6=T7=T8=T9=0
150 U0=U1=U2=U3=U4=U5=U6=U7=U8=U9=V0=V1=V2=V3=V4=V5=V6=Y7=V3=V9=0
160 N0=N1=N2=N3=N4=N5=N6=N7=N8=N9=X0=X1=X2=X3=X4=X5=X6=X7=X8=X9=R
170 R1=8
180 L=0
190 IF END#1 THEM 1420
200 READ #2:1;Z#
210 T=1
220 8=15
    REND A MEW RECORD
230 READ #1,81N[1],N[2],N[3],N[4],N[5],N[6],N[6],N[7],N[8],NL9]
240 READ #1:HC10],ME11],ME12],NE13],NE13],NE14],HE15],NE16],HE17],HE18]
250 READ #!;A$,B$,C$,D$,E$,F$,G$,H$,I$
260 READ #1; J$, K$, NE 193, NE 203, NE 213, NE 223, NE 233
270 ACIJ=NU2J
280 GUTO 460
290 READ #1.R1; NE1], NE2], NE3], NE4], NE5], ME6], NE7], NE3], NE9]
300 READ #13NC103,NC113.NC123,NC133,NC143,NC153,NC163,NC173,NC303
310 READ #1;A$,B$,C$,D$,E$,F$,G$,H$,I$
320 READ #1;J$,K$,N[19],N[20],N[21],N[22],N[23]
330 IF R!=R2 THEM 370
340 READ #1.R1+1;8[1].B[2]
350 IF E[2]=N[2] OR L <= 57 THEN 370
360 GOSUB 950
```

AGED AZR REPORT (CONTINUED)

```
2. READ A MEW RECORD (CONTINUED)
370 IF HEID-ME21 THEN 400
380 ALIJ=ME27
390 GCSUB 1830
400 GOSUB 1160
410 T=T+1
420 IF RI=R2 THEN 440
430 RETURN
440 SOSUB 1030
450 GOTO 820
3. REPORT TITLE
460 J=1
470 WRITE (8:480)
480 FORMAT 2 , 24X, "AGED ACCOUNTS RECEIVABLE REPORT"
490 WRITE (8.*)TAB(40-(LEM(2$)/2));Z$
500 WRITE (S,510)
510 FORMAT 2/
520 1=1+9
530 G08U8 640
4. MAIN CALLING SEQUENCE
540 IF PLAKE THEN 580
550 GOSUB 290
560 RI=R141
570 GOTO 540
580 FOR := 1. TO 65
590 WRITE (5.*)
600 NEXT I
610 WRITE (8,620)95
620 FORMAT Biz
630 GOTO :420
```

AGED AZR REPORT (CONTINUED)

```
5.
  PAGE NUMBER AND HEADING
640 IF J=1 THEN 700
650 DISP "TEAR PAPER NOW"
660 WAIT 3000
670 WRITE (8,680)J
680 FORMAT /, "PAGE", F5.0, 2/
690 L=L+6
700 WRITE (S,710)0;
710 FORMAT " CUSTOMER NAME
                           INVOICE TOTAL (30 30-59 ",8
720 WRITE (S,730)
730 FORMAT " 60-89
                     >=9A"
740 WRITE (8,750)
750 FORMAT 24%,"NUMBER",6%,"OUT",7%,"DAYS",6%,"DAYS",6%,"DAYS",6%,"DAYS"
760 WRITE (8,770)0;
780 WRITE (8,790)
790 FORMAT "=====",4%;"======",4%;"=======",/
800 L=L+4
810 RETURN
6.
   TOTALS
820 WRITE (S,830)X0,X1,X2,X3,X4
830 FORMAT /,5%,"TOTAL",20%,5F10.2
840 P0=100
850 Pl=(X1/X0)*100
860 P2=(X2/X0)*100
870 P3=(X3/X0)*100
880 P4=(X4/X0)*100
890 WRITE (S,900)P0,P1,P2,P3,P4
900 FORMAT 5%,"PERCENT",18%,F10.0,4F10.2
910 L=L+3
920 RETURN
```

AGED AZR REPORT (CONTINUED)

7. MEW PAGE 930 IF L <= 58 THEN 1020 940 IF R1=R2 THEN 1020 950 FOR I=L TO 65 960 WRITE (8)*) 970 NEXT I 980 WRITE (\$,620)95 990 L=0 1000 J=J+1 1010 GOSUB 640 1020 RETURN 8. SUBTOTALS 1030 IF T#2 THEN 1090 1040 IF R1>R2 THEN 1150 1050 WRITE (S.*) 1060 L=L+1 1070 80=81=82=83=84=0 1080 GOTO 1130 1090 WRITE (8,1100)80,81,82,83,84 1100 FORMAT 3X, "CUSTOMER TOTAL", 13X, 5F10, 2,/ 1110 80=81=82=83=84=85=86=87=88=89=0 1120 L=L+2 1130 GOSUB 930 1140 T=1 1150 RETURN 9. PRINT A RECORD 1160 IF R1#R2 OR L <= 52 THEN 1180 1170 GOSUB 950 1180 Z*=" 1190 IF LEN(A\$)<20 THEN 1220 1200 A\$=A\$[1,20] 1210 GOTO 1230 1220 A\$[LEN(A\$)+1]=Z\$[1,20-LEN(A\$)]

AGED AZR REPORT (CONTINUED)

```
9. PRINT A RECORD (CONTINUED)
1230 IF T<2 OR L=10 THEN 1270
1240 WRITE (8,1250) NC13, NC163, NC193, NC203, NC213, NC223
1250 FORMAT 20X, F9.0, X, 5F10.2
1260 GOTO 1290
1270 WRITE (8,1280) A$, NC13, NC163, NC193, NC203, NC213, NC223
1280 FORMAT F9.0, X, 5F10.2
1290 S0=S0+N[16]
1300 S1=S1+NC191
1310 S2=S2+NC20]
1320 S3=S3+N[21]
1330 S4=S4+N[22]
1340 X0=X0+N[16]
1350 X1=X1+N[19]
1360 X2=X2+N[20]
1370 X3=X3+N[21]
1380 X4=X4+ND223
1390 L=L+1
1400 GOSUB 930
1410 RETURN
```

PROGRAM TERMINATION

1420 DISP "SELECT KEY"

10.

1430 END

OVER CREDIT LIMIT (BILL14)

```
PROGRAM INITIALIZATION
1 ..
1 DIM A$[29],8$[15],C$[29],D$[29],E$[3],F$[6]
20 DIM G$[29],H$[29],[$[29],J$[3],K$[6],N[23]
30 DIM Z#[72], S#[72]
40 DIM U$[80], V$[80], W$[80], X$[80], Y$[80]
50 DISP "OVER CREDIT LIMIT REPORT"
60 WAIT 1500
70 FILES *,DATE
80 ASSIGN "MINV1",1,I
90 IF IKS THEN 130 .
100 PRINT "MINV1 NOT OPENED OR ILLEGAL PROTECTION KEY"
110 PRINT
120 STOP
130 READ #1,75R2,Z#
140 80=81=82=83=84=85=86=87=88=89=T0=T1=T2=T3=T4=T5=T6=T7=T8=T9=0
150 U0=U1=U2=U3=U4=U5=U6=U7=U8=U9=V0=V1=V2=V3=V4=V5=V6=V7=V8=V9=0
160 W0=W1=W2=W3=W4=W5=W6=W7=W8=W9=X0=X1=X2=X3=X4=X5=X6=X7=X8=X9=0
170 R1=8
180 L=0
190 IF EMD#1 THEN 1320
200 READ #2,1;Z$
```

2. READ A NEW RECORD

210 8=15

```
220 READ #1,8;N[1],N[2],N[3],N[4],N[5],N[6],N[7],N[8],N[9]
230 READ #1;N[10],N[11],N[12],N[13],N[14],N[15],N[16],N[16],N[17],N[18]
240 READ #1;A$,B$,C$,D$,E$,F$,G$,H$,I$
250 READ #1;J$,K$,N[19],N[20],N[21],N[22],N[23]
260 A[1]=N[2]
270 A[3]=N[12]
280 X$=A$
290 A[2]=N[23]
310 GOTO 600
320 READ #1,R1;N[1],N[2],N[3],N[4],N[5],N[6],N[7],N[8],N[9]
330 READ #1;N[10],N[11],N[12],N[13],N[14],N[5],N[6],N[7],N[16],N[17],N[18]
340 READ #1;A$,B$,C$,D$,E$,F$,G$,H$,I$
350 READ #1;J$,K$,N[19],N[20],N[21],N[22],N[23]
```

OVER CREDIT LIMIT (CONTINUED)

2. READ A NEW RECORD (CONTINUED) 360 IF AC1]=NC2] THEN 390 370 IF S0 <= A[2] THEN 420 380 GOSUB 1040 390 GOSUB 1280 400 IF R1=R2 THEN 480 410 RETURN 420 80=81=0 430 AC1]=NC2] 440 A[2]=N[23] 450 X\$=A\$ 460 A[3]=W[12] 470 GOTO 390 480 IF 80 <= A[2] THEN 500 490 GOSUB 1040 500 GOTO 890 3. REPORT TITLE 510 J=1 520 WRITE (S:530) 530 FORMAT 2/,27%, OVER CREDIT LIMIT REPORT" 540 WRITE (8,*)TAB(40-(LEN(2*)/2));Z* 550 WRITE (8,560) 560 FORMAT 2/ 570 L=L+9 580 GOSUB 700 590 RETURN MAIN CALLING SEQUENCE 600 IF R1>R2 THEN 640 610 GOSUB 320 620 R1=R1+1 630 COTO 600 640 FOR I=L TO 65 650 WRITE (S: #) 660 NEXT I

670 WRITE (S,680)95

680 FORMAT 8,/ 690 GOTO 1320

OVER CREDIT LIMIT (CONTINUED)

```
5. PAGE NUMBER AND HEADING
700 IF J=1 THEM 760
710 DISP "TEAR PAPER NOW"
720 WAIT 3000
730 WRITE (S,740)J
740 FORMAT /, "PAGE", F5.0,2/
750 L=L+6
760 WRITE (S:770)0;
                        CUSTOMER NAME CREDIT DATE ",8
770 FORMAT " CUSTOMER
780 URITE (8,790)
790 FORMAT " TOTAL
                     AMOUNT"
800 WRITE ($,810)
810 FORMAT " NUMBER",27%,"LIMIT",%,"LAST PAY",7%,"OUT",6%," OVER"
820 WRITE (S:830)0;
830 FORMAT "======", X,"==========", 5X,"======", X,"=======", 6X, B
840 WRITE (8:850)
850 FORMAT "=====",5%,"======",/
860 L=L+4
870 N=2
880 RETURN
6. TOTALS
890 IF N=1 THEN 1320
900 WRITE (8,910)X0,X1,X2
910 FORMAT /,20X, "TOTAL",6X,F10.2,10X,F10.2,X,F10.2,X
920 L=L+2
930 RETURN
7. HEW PAGE
940 IF L <= 61 THEN 1030
950 IF R1=R2 THEN 1030
960 FOR I=L TO 65
970 WRITE (S) #)
980 NEXT I
```

OVER CREDIT LIMIT (CONTINUED)

```
7. MEW PAGE (CONTINUED)
990 WRITE (S,680)95
1000 L=0
1010 J=J+1
1020 GOSUB 700
1030 RETURN
9. PRINT A RECORD
1040 IF N#1 THEN 1060
1050 GOSUB 510
1060 IF R1#R2 OR L <= 59 THEN 1080
1070 GOSUB 960
1080 Z#="
1090 IF LEN(X$)<20 THEN 1120
1100 X$=X$[1,20]
1110 GOTO 1130
1120 X$[LEN(X$)+1]=Z$[1,20-LEN(X$)]
1130 S1=S0-A[2]
1140 Z1=FNS(A[3])
1150 WRITE (S,1160)A[1],X$,A[2],S$,0,S0,S1,0
1160 FORMAT F10.0, X, F10.2, X, B, X, F10.2, X, F10.2, B
1170 X0=X0+AC2]
1180 X1=X1+S0
1190 X2=X2+S1
1200 AC 1 J=NC 2 J
1210 AC23=NC233
1220 X$=A$
1230 A[3]=N[12]
1240 80=81=82=83=84=85=86=87=88=89=0
1250 L=L+1
1260 GOSUB 940
1270 RETURN
1280 S0=S0+N[16]
1290 IF A[3] >= N[12] THEN 1310
1300 A[3]=M[12]
1310 RETURN
```

OVER CREDIT LIMIT (CONTINUED)

```
10. PROGRAM TERMINATION
1320 DISP "SELECT KEY"
1330 END
11. DATE CONVERSION
1340 DEF FNS(Z)
1350 IF Z#0 THEN 1380
1360 S$="
1370 RETURN 0
1380 Y=INTZ
1390 M=INT(100*(Z-INTZ))
1400 D=INT(100*(100*Z-INT(100*Z)))
1410 DEXPM.Y#
1420 8$=Y$[3]
1430 8#[3]="/"
1440 DEXPD.Y#
1450 S#[4]=Y#[3]
1460 8$[6]="/"
1470 DEMPY YS
```

1480 S#[7]=Y#[3] 1490 RETURN 0 1. PROGRAM IMITIALIZATION

DAILY REGISTERS (BILL15)

1 DIM A*[29], B*[15], C*[29], D*[29], E*[3], F*[6] 20 DIM G\$[29],H\$[29],I\$[29],J\$[3],K\$[6],N[23] 30 DIM Z\$[72],8\$[72] 40 DIM U\$[80], V\$[80], W\$[80], X\$[80], Y\$[80] 50 FILES *, DATE 60 ASSIGN "DOREC2",1,1 70 IF IKS THEM 110 80 PRINT "DCREC2 NOT OPENED OR ILLEGAL PROTECTION KEY" 90 PRINT 100 STOP 110 READ #1,7,82,Z\$ 120 80=81=82=83=84=85=86=87=88=99=0 130 S=15 140 R1=5 150 L=0 160 IF END#1 THEN 960 170 READ #2:10Z\$ 180 READ #2,3;K1 READ A NEW RECORD 190 READ #1,8;NC1],NC2],NC3],NC4],NC5],NC6],NC6],NC7],NC8],NC9] 200 READ #1;NC10],NC11],NC12],NC13],NC14],NC15],NC16],NC17],NC18] 210 READ #1;A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$,I\$ 220 READ #1; J\$, K\$, NC 19], NC 20], NC 21], NC 22], NC 23] 230 GOTO 320 240 READ #1,R1;NE1],NE2],NE3],NE4],NE5],NE6],NE7],NE8],NE9] 250 READ #1; NC 10], NC 11], NC 12], NC 13], NC 14], NC 15], NC 16], NC 17], NC 18] 260 READ #1; As, Bs, Cs, Ds, Es, Fs, Gs, Hs, Is 270 READ #1; J\$, K\$, N[19], N[20], N[21], N[22], N[23] 280 GOSUB 860 290 IF RI#R2 THEN 310 300 GOTO 720 310 RETURN

DAILY REGISTERS (CONTINUED)

3. REPORT TITLE

```
320 J=1
330 IF K!=1 THEN 370
340 WRITE ($,350)
350 FGRMAT 20,29%,"CASH RECEIPTS REGISTER"
360 GGTO 380
370 WRITE ($,380)
380 FORMAT 20,23%,"CASH RECEIPTS TRANSACTION REGISTER"
390 WRITE ($,*)TAB(40-(LEN(Z*)/2));Z*
400 WRITE ($,*)TAB(40-(LEN(Z*)/2));Z*
400 WRITE ($,410)
410 FORMAT 20
420 L=L+9
430 GGSUB 540
```

4. MAIN CALLING SEQUENCE

```
440 IF R1>R2 THEN 480
450 GOSUB 240
460 R1=R1+1
470 GCTO 440
480 FOR 1=L FO 65
490 WRITE (S,*)
500 NEXT I
510 WRITE (S,520)95
520 FORMAT B,7
```

5. PAGE NUMBER AND HEADING

```
540 IF J=1 THEN 600
550 DISP "TEAR PAPER NOW"
560 WAIT 3000
570 WRITE (S,580)J
580 FORMAT /,"PAGE",F5.0,2/
590 L=L+6
```

THATLY REGISTERS (CONTINUED)

```
5. PAGE NUMBER AND HEADING (CONTINUED)
600 WRITE (S:610)0;
610 FORMAT 6%, "CUSTOMER", 6%, "INVOICE", 8%, "ADJUST-", 8%, "DATE ", 8
620 WRITE (8:630)
630 FORMAT 7%, "CASH"
640 WRITE (8+650)
650 FORMAT 8%, "NUMBER", 7%, "NUMBER", 9%, "MENTS", 9%, "PAID", 6%, "RECEIVED"
660 WRITE (8:670)0;
670 FORMAT 6X, "=======",6X; "=======",8X,"=======",8X,8
680 WRITE (S:690)
690 FORMAT "====",6%,"=======",/
700 L=L+4
710 RETURN
6. TOTALS
720 WRITE (S,730)S0,S1
730 FORMAT /,20X,"TOTAL",6X,F11.2,14X,F12.2
740 L=L+2
750 RETURN
7. NEW PAGE
760 IF L <= 61 THEN 850
770 IF R1=R2 THEN 850
780 FOR I=L TO 65
790 WRITE (S:*)
800 NEXT I
810 WRITE (8,520)95
820 L=0
830 J=J+1
840 GOSUE 540
850 RETURN
```

DAILY REGISTERS (CONTINUED)

```
9. PRINT A RECORD
860 IF R1#R2 OR L <= 59 THEN 880
870 GOSUB 780
880 Z1=FNS(N[12])
890 WRITE (8,900)NE2],NE1],NE11],S$,0,NE13],0
900 FORMAT 4X,F10.0,3X,F10.0,4X,F11.2,5X,B,X,F12.2,B
910 S0=S0+MC11]
920 S1=S1+N[13]
930 L=L+1
940 GOSUB 760
950 RETURN
10. PROGRAM TERMINATION
960 DISP "SELECT KEY"
970 END
11. DATE CONVERSION
980 DEF FMS(Z)
990 IF Z#0 THEN 1020
1000 S$="
1010 RETURN 0
1020 Y=INTZ
1030 M=INT(100*(Z-INTZ))
1040 D=INT(100*(100*Z-INT(100*Z)))
1050 DEXPM,Y$
1060 S$=Y$[3]
1070 S$[3]="/"
1080 DEXPD:Y*
1090 S#[4]=Y#[3]
1100 S#[6]="/"
1110 DEXPY: Ys
1120 S#[7]=Y#[3]
1130 RETURN Ö
```

DAILY INVOICE REGISTER (BILLIE)

FROGRAM INITIALIZATION 1... 1 DIN A\$[29],8**\$[15],**C\$[29],D\$[29],E\$[3],F\$[6] 20 D[M G\$[29],H\$[29],[\$[29],J\$[3],K\$[6],N[23] 30 DIM Z\$[72],8\$[72] 40 DIM U\$[80],V\$[80],W\$[80],X\$[80],Y\$[80] 50 FILES **DATE 60 ASSIGN "DINV2",1,1 70 IF IKS THEM 110 80 PRINT "DINV2 NOT OPENED OR ILLEGAL PROTECTION KEY" 90 PRINT 100 STOP 110 READ #1,71R2,Z\$ 120 80-81-82-83-84-85-86-87-88-89-0 130 8=15 140 R1=8 150 L=0 160 IF END#1 THEN 920 170 READ #2,1;Z* READ A MEW RECORD 2. 180 READ #1,8;NC1],NC2],NC3],NC4],NC5],NC6],NC7],NL8],NC9] 190 READ #1; NC 10], NC 11], NC 12], NC 13], NC 14], NC 15], NC 16], NC 17], NC 18] 200 READ #1;A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$,I\$ 210 READ #1; J\$, K\$, NE 19], NE 20], NE 21], NE 22], NE 23] 220 GOTO 310 230 READ #1,R1;N[1],N[2],N[3],N[4],N[5],N[6],N[7],N[8],N[9] 240 READ #1;NC10],NC11],NC12],NC13],NC14],NC15],NC16],NC17],NC18] 250 READ #1; A\$, B\$, C\$, D\$, E\$, F\$, G\$, H\$, I\$ 260 READ #1; J\$, K\$, N[19], N[20], N[21], N[22], N[23] 270 GOSUB 830 280 IF R1#R2 THEN 300 290 GOTO 690

300 RETURN

DAILY INVOICE REGISTER (CONTINUED)

```
3. REPORT TITLE
310 J=1
320 WRITE (5,330)
330 FORMAT 2/,28%,"DAILY INVOICE REGISTER"
340 WRITE (S,*)TAB(40-(LEN(Z$)/2));Z$
350 WRITE (S,360)
360 FORMAT 2/
370 L=L+9
380 GOSUB 510
4. MAIN CALLING SEQUENCE
390 IF R1)R2 THEN 430
400 GOSUB 230
410 R1=R1+1
420 GOTO 390
430 FOR I=L TO 65
440 WRITE (S:#)
450 NEXT I
460 WRITE (S,470)95
470 FORMAT B:/
480 DISP "TEAR PAPER NOW"
490 WAIT 3000
500 GOTO 920
5. PAGE NUMBER AND HEADING
510 IF J=1 THEN 570
520 DISP "TEAR PAPER HOW"
530 WAIT 3000
540 WRITE (3,550)J
550 FORMAT /, "PAGE", F5.0, 2/
560 L=L+6
570 WRITE (8,580)0;
580 FORMAT 6%, "CUSTOMER", 6%, "INVOICE", 9%, "AMOUNT", 9%, B
590 WRITE (S:600)
600 FORMAT "DATE",7X; "DISC"
610 WRITE (5,620)
620 FORMAT 3X."NUMBER",7X."NUMBER",9X."BILLED",8X."BILLED",6X."PERC"
```

DAILY INVOICE REGISTER (CONTINUED)

```
5. PAGE NUMBER AND HEADING (CONTINUED)
630 WRITE (S:640)0;
640 FORMAT 6%, "=======",6%, "=======",9%, "=======",8%,8
650 WPITE ($,660)
660 FORMAT "=====",6%,"=====",/
670 L=L+4
680 RETURN
6.
  TOTALS
690 WRITE (S,700)80
700 FORMAT 2,20X,"TOTAL",5X,F12.2
710 L=L+2
720 RETURN
7. NEW PAGE
730 IF L <= 51 THEN 820
740 IF R1=R2 THEN 820
750 FOR 1=L TO 65 .
760 WRITE (S,*)
770 HEXT I
780 WRITE (S,470)95
790 L=0
800 J=J+1
810 GOSUB 510
820 RETURN
9. PRINT A RECORD
830 IF R14R2 OR L (= 59 THEN 850
840 GOSUB 750
850 Z1=FNS(N[3])
860 WRITE (8,870)N[2],N[1],N[9],S$,0,N[10]
870 FORMAT 4X, F10.0, 3X, F10.0, 3X, F12.2, 6X, B, 3X, F7.2
```

DAILY INVOICE REGISTER (CONTINUED)

```
9. PRINT A RECORD (CONTINUED)
880 S0=SU+N[9]
890 L=L+1
900 GOSUB 730
910 RETURN
10. PROGRAM TERMINATION
920 PRINT #2,3;0
930 GET "BILL15",1,1
940 END
11. DATE CONVERSION
950 DEF FHS(Z)
960 IF Z#0 THEN 990
970 8#="
980 RETURN 0
990 Y=INTZ
1000 M=IMT(100*(Z-IMTZ))
1010 D=INT(100*(100*Z-INT(100*Z)))
1020 DEXPM:Y$
1030 S$=Y$[3]
1040 S#[3]="/"
1050 DEXPD:Y$
1060 S$[4]=Y$[3]
1070 9#[6]="/"
1080 DEXPY:Y*
```

1090 S#[7]=Y#[3] 1100 RETURN 0

OUTSTANDING INVOICES (BILL17)

PROGRAM INITIALIZATION 1 DIM A\$[23],8\$[15],C\$[29],D\$[29],E\$[3],F\$[6] 20 DIM G\$[29],H\$[29],I\$[29],J\$[3],K\$[6],N[23] 30 DIM Z\$[72],8\$[72] 40 DIM U\$[80],V\$[80],W\$[80],X\$[80],Y\$[80] 50 DISP "OUTSTANDING INVOICES" 60 WAIT 1500 70 FILES *, DATE 80 ASSIGN "MINV1",1,I 90 IF IKS THEN 130 100 PRINT "MINV1 NOT OPENED OR ILLEGAL PROTECTION KEY" 110 PRINT 120 STOP 130 READ #1,73R2,Z\$ 140 S0=S1=S2=S3=S4=S5=S6=S7=S8=S9=0 150 8=15 160 R1=8 170 L=0 180 IF END#1 THEN 980 190 READ #2,1;Z# READ A MEW RECORD 2. 200 READ #1,8;NE1],NE2],NE3],NE4],NE5],NE6],NE7],NE8],NE9] 210 READ #1;NC10],NC11],NC12],NC13],NC14],NC15],NC15],NC16],NC17],NC18] 220 READ #1;A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$,I\$ 230 READ #1; J\$, K\$ 240 GOTO 330 250 READ #1,R1;NC1],NC2],NC3],NC4],NC5],NC6],NC7],NC8],NC9] 260 READ #1; NC 10], NC 11], NC 12], NC 13], NC 14], NC 15], NC 16], NC 17], NC 18] 270 READ #1;A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$,I\$ 280 READ #15J\$,K\$ 290 GOSUB 850 300 IF R14R2 THEN 320 310 GOTO 710

320 RETURN

CUTSTANDING INVOICES (CONTINUED)

3. REPORT TITLE

```
330 J=1
340 WRITE (8:350)
350 FORMAT 2/,30%,"OUTSTANDING INVOICES"
360 WRITE (S.*)TAB.40-(LEN(Z$)/2));Z$
370 HRITE (S,380)
380 FORMAT 2/
390 L=L+9
400 GOSUB 510
4. MAIN CALLING SEQUENCE
410 IF R:>R2 THEN 450
420 GOSUB 250
430 R1=R1-1
440 GOTO 410
450 FOR I=L TO 65
460 WRITE (S:*)
470 MEXT I
480 WRITE (8:490)95
490 FORMAT B,/
500 GOTO 980
5. PAGE HUMBER AND HEADING
510 IF J=1 THEN 570
520 DISP "TEAR PAPER HOW"
530 HAIT 3000
540 WRITE (8:550)J
550 FORMAT /, "PAGE", F5.0, 2/
560 L=L+6
570 WRITE (S,580)0;
580 FORMAT 2X, "CUSTOMER", 2X, "INVOICE", 4X, "DATE", 4X, "TOTE ANT", SX, "PARTIAL ", 9
590 WRITE (S:600)
600 FORMAT " ADJUST- FINANCE BALANCE"
```

OUTSTANDING INVOICES (CONTINUED)

```
:::"
:.....
   PAGE NUMBER AND HEADING (CONTINUED)
610 WRITE (8.620)0;
620 FORMAT 4X*"NUMBER",3X,"NUMBER",3X,"BILLED",4X,"BILLED",5X/"ANT PD"/3X,8
630 WRITE (8,640)
640 FORMAT "MENTS",4%, "CHARGE",6%, "DUE"
650 WRITE (8,660)0;
660 FORMAT " =======",2%,"========",3%,"========",3%,"=========",8%,"========",8
670 WRITE (8,680)
680 FORMAT 2X, "======",2X, "=======",4X, "=======",/
690 L=L+4
700 RETURN
6. TOTALS
710 WRITE (8,720)80,81,82,83,84
720 FORMAT /,17%,"TOTAL",5%,F12.2,%,F9.2,%,F8.2,F9.2,F9.2,F9.
730 L=L+2
740 RETURN
7. NEW PAGE
750 IF L <= 61 THEN 840
760 IF R1=R2 THEN 840
770 FOR J=L TO 65
780 WRITE (3.*)
790 NEXT I
800 WRITE (8,490)95
810 L=0
820 J=J+1
830 GOSUB 510
```

840 RETURN

OUTSTANDING INVOICES (CONTINUED)

```
9. PRINT A RECORD
850 IF R1#R2 OR L <= 59 THEN 870
860 GOSUB 770
870 Z1=FNS(M[3])
880 WRITE (S,890)N[2].N[1].S$.0.N[9].N[14].N[11].N[18].N[16]
890 FORMAT F10.0,F9.0,X,B,X,F10.2,X,F9.2,X,F8.2,X,F8.2,X,F10.2
900 S0=S0+N(9]
910 S1=S1+N[14]
920 82=82+NE111
930 83=83+M[18]
940 S4=S4+N[16]
950 L=L+1
960 GOSUB 750
970 RETURN
   PROGRAM TERMINATION
1月.
980 DISP "SELECT KEY"
990 END
11. DATE CONVERSION
1000 DEF FMS(Z)
1010 IF Z#0 THEN 1040
1020 S#="
1030 RETURN 0
1040 Y=IHTZ
1050 M=INT(100*(Z-INTZ))
1060 D=[NT(100*(100*Z-INT(100*Z)))
1070 DEXPM:Y$
1080 S#=Y#[3]
1090 S$[3]="/"
1100 DEXPD,Y$
1110 S$[4]=Y$[3]
1120 8$[6]="/"
1130 DENPY,Y$
1140 S$[7]=Y$[3]
```

1150 RETURN 0

PARTIALLY PAID INVOICES (BILL18)

PROGRAM INITIALIZATION 1 DIM A\$[29],B\$[15],C\$[29],D\$[29],E\$[3],F\$[6] 20 DIM G\$(29], H\$[29], I\$[29], J\$[3], K\$[6], N[23] 30 DIM Z#[72], S#[72] 40 DIM U\$[80],V\$[80],W\$[80],X\$[80],Y\$[80] 50 DISP "PART PD INVOICES" 60 WAIT 1500 70 FILES * DATE 80 ASSIGN "MINV1",1,1 90 IF IKS THEN 130 "MINVI NOT OPENED OR ILLEGAL PROTECTION KEY" 100 PRINT 110 PRINT 120 STUP 130 READ #1,7;R2,Z\$ 150 8=15 160 R1=8 170 L=N=0 180 IF END#1 THEN 1050 190 READ #2,1;Z# 2. READ A NEW RECORD 200 READ #1,8;N(1],N(2],N(3],N(4],N(5],N(6],N(7],N(3],N(8], 210 READ #1;NC10].NC11].NC12].NC13].NC14].NC15].NC16].NC17].NC18] 220 READ #1;A*,B*,C*,D*,E*,F*,G*,H*,I* 230 READ #1;J\$,K\$,N[19],N[20],N[21],N[22],N[28] 240 GOTO 440 250 READ #1,R1;NC1],NC2],NC3],NC4],NC5],NC6],NC6],NC7],NC8],NC9] 260 READ #1;NC10],NC11],NC12],NC13],NC14],NC15J,MC16],NC17],NC18] 270 READ #1; A\$, B\$, C\$, D\$, E\$, F\$, G\$, H\$, I\$ 280 READ #1;J\$,K\$,M[19],N[20],N[21],N[22],N[23] 290 IF ME93=ME163 THEN 320 300 IF NE(4)=0 THEM 320 310 GOSUB 900 320 IF R1#R2 THEN 340

330 GOTO 750 340 RETURN

PARTIALLY PAID INVOICES (COMPINUED)

3. REPORT TITLE 350 J=1 360 MRITE (15,370) 370 FORMAT 2/,28%, "PARTIALLY PAID INVOICES" 380 WRITE (S,*)TAB(40-(LEN(Z*)/2));Z* 390 WRITE (5:400) 400 FORMAT 2/ 410 L=L+9 420 GOSUB 540 430 RETURN 4. MAIH CALLING SEQUENCE 448 IF R1>R2 THEN 480 450 GOSUB 250 460 RI=RI+1 470 GOTO 440 480 FOR I=L TO 65 490 WRITE (S:*) 500 NEXT 1 510 WRITE (S.520)95 520 FORMAT ByZ 530 GOTO 1050 5. PAGE NUMBER AND HEADING 540 IF J=1 THEN 600 550 DISP "TEAR PAPER NOW" 560 WAIT 3000 570 MRITE (8,580)J 580 FORMAT /, "PAGE", F5.0, 2/ 590 L=L+6 600 MRITE (8,610)0; 610 FORMAT 2X, "CUSTOMER", 2X, "INVOICE", 5X, "AMOUNT", 5X, "AMOUNT", 47, "DATE", B 620 WRITE (8,630) 630 FORMAT 2X, "ADJUST-", 2X, "FINANCE", 6X, "BALANCF" 640 MRITE (8,650)0;

PARTIALLY PAID INVOICES (CONTINUED)

```
5. PAGE HUMBER AND HEADING (CONTINUED)
650 FORMAT 3X, "NUMBER NUMBER BILLED PAID", 4X, "PAID", 8
660 WRITE (5:670)
670 FORMAT 4X, "MENTS", 3X, "CHARGE", 8X, "DUE"
680 WRITE (S,690)0;
700 WRITE (S,710)
710 FORMAT 2X,"======",2X,"=======",6X,"========",/
720 L=L+4
730 N=1
740 RETURN
6. TOTALS
750 IF N=0 THEM 1050
760 WRITE (S,770)80,81,82,83,84
770 FORMAT /,8X,"TOTAL",5X,F12.2,X,F10.2,7X,F10.2,X,F8.2,X,F12.2
780 1 = 1 + 2
790 RETURN
7. NEW PAGE
800 IF L <= 61 THEN 890
810 IF R1=R2 THEN 890
820 FOR I=L TO 65
830 WRITE (S,*)
840 NEXT I
850 WRITE (8,520)95
860 L=0
878 J=J+1
880 GOSUB 540
```

890 RETURN

PARTIALLY PAID INVOICES (CONTINUED)

```
9. PRINT A RECORD
900 IF N=1 THEN 920
910 COSUB 350
920 IF R1#R2 OR L <= 59 THEN 940
930 GOSUR 820
940 Z1=FMS(N[12])
950 WRITE (S,960)NE23.NE13.NE93.NE143.S$.0.NE113.NE183.HE163
960 FORMAT F10.0, F9.0, X, F10.2, X, F10.2, X, B, X, F7.2, X, F8.2, X, F12.2
970 S0=S0+N[9]
980 S1=S1+N[14]
990 S2=S2+N[11]
1000 S3=S3+NE18]
1010 S4=S4+N[16]
1020 L=L+1
1030 GOSUB 800
1040 RETURN
10.
    - PROGRAM TERMINATION
1050 DISP SELECT KEY"
1060 EHD
11. DATE LONVERSION
1070 DEF FHS(Z)
1080 IF Z#0 THEN 1110
1090 84="
1100 RETURN 0
1110 Y=INTZ
1120 M=INT(100*(Z-INTZ))
1130 D=INT(100*(100*Z-INT(100*Z)))
1140 DEXPM:Y#
1150 S#=Y#[3]
1160 8$[3]="/"
1170 DEMPD, Y#
1180 8#[4]=Y#[3]
1190 S#[6]="/"
1200 DEXPY:Y$
1210 8#[7]=Y#[3]
1220 RETURN 0
```

STATEMENTS (BILL19)

1. PROGRAM INITIALIZATION

```
L DIM A#[29], B#[15], C#[29], D#[29], E#[3], F#[6]
20 DIM G$[29],H$[29],I$[29],J$[3],K$[6],N[23]
30 DIM Z#172],8#[30],M#[30],0#130]
40 DIM U$[80],V$[80],W$[80],X$[80],Y$[80]
50 DISP "STATEMENTS"
60 WAIT 1500
70 FILES *, DATE
80 ASSIGN "DIMV2",1,1
90 IF IKS THEN 140
100 PRINT "DINY2 NOT OPENED OR TLLEGAL PROTECTION KEY"
110 PRINT
120 STOP
130 IF END#1 THEN 1090
140 S=15
150 L=0
160 READ #1,7;R1,Z#
170 IF R1=7 THEN 1090
180 DISP "ENTER YOUR COMPANY NAME";
190 IMPUT Ö#
200 DISP "ENTER SENDERS MAME";
210 IMPUT Ms
220 DISP "ENTER SENDERS TITLE";
230 INPUT S$
240 READ #2:1;Z$
```

2. READ A NEW RECORD

```
250 FOR I=8 TO R1
260 READ #1,I;N[1],N[2],N[3],N[4],N[5],N[6],N[7],N[8],N[9]
270 READ #1;N[10],N[11],N[12],N[13],N[14],N[15],N[16],N[17],N[18]
280 READ #1;A$,B$,C$,D$,E$,F$,G$,H$,I$,J$
290 READ #1;K$,N[19],N[20],N[21],N[22],N[23]
```

STATEMENTS (CONTINUED)

```
4. MAIN CALLING SEQUENCE
300 WRITE (5,310)0*,0
310 FORMAT 92.10X.R.SZ
320 WRITE (S.330)Z$.0
330 FORMAT BAZ
340 WRITE (8,*)"SOLD TO:",TAB40,"SHIP TO:"
350 WRITE (8.*)A$, TAB40, G$
360 WRITE (8,*)C$,TAB40,H$
          (S,*)D$;",";" ";E$;" ";F$,TAB40,[$;",";" ";J&;" ";K;
370 WRITE
380 WRITE (8,390)"DEAR SIR:",0
390 FORMAT 2/484/
400 WRITE ($,410)0,"PER THE ATTACHED DOCUMENTS, PLEASE REHIT THE ",0;
410 FORMAT 5%,28,"FOLLOWING:",2/
420 WRITE (S.*)"YOUR PURCHASE ORDER NUMBER: "!D$
430 WRITE (8,440)"INVOICE NUMBER:
                                     440 FORMAT F10.0,2/
450 WRITE (S,460)"PRICE OF GOODS
                                     #"#H[4]
460 FORMAT F12.2
470 MRITE (S,480)"FREIGHT",0;NE5]
480 FORMAT B.12X.F12.2
490 WRITE (S,500)"SERVICE",0;N[6]
500 FORMAT B, 12%, F12.2
510 WRITE ($,520)
520 FORMAT 24X.7"="
530 WRITE (8,540)"CITY TAX",0;NE?]
540 FORMAT 8,11%,F12.2
550 WRITE (8,560)"STATE TAX",0;NE8]
560 FORMAT 8,10%,F12.2
570 X=MC43+NC53+NC63+NC73+NL83
580 WRITE (S:590)
590 FORMAT 24X,7"="
600 WRITE (S.610)X
610 FURMAT "TOTAL",13%,"$",F12.2
620 L=L+38
630 IF NL:01#0 THEN 680
640 WRITE (8.#)
650 WRITE (S.*)
660 L=L+2
670 GOTO 800
680 WRITE (S,690)NL101
690 FORMAT "LESS", F7.2, "% DISCOUNT"
700 WRITE (S,710)"IF PAID IN 10 DAYS",0;N[15]
710 FORMAT 8,5%,F8.2
720 X1=X-NE153
730 WRITE (8,740)X1
```

STATEMENTS (CONTINUED)

```
MAIN CALLING SEQUENCE (CONTINUED)
749 FORMAT "TOTAL",13%, "$", F12.2,2/
750 WRITE (3,760)"TERMS: ";N[10]
760 FORMAT F7.2."% 10 DAYS, NET 30 DAYS FROM DATE OF STATEMENT."
770 WRITE (S.*)
780 L=L+7
790 GOTO 530
800 WRITE (S)*)"TERMS: NET 30 DAYS FROM DATE OF STATEMENT."
810 WRITE (8,*)
820 L=L+2
830 IF NC17J#0 THEN 870
840 WRITE (5,930)
850 L=L+2
860 GOTO 950
870 X3=MC17]*12
880 WRITE (S:890)"FINANCE CHARGE: ";NE173;"% PER MONTH(";%3;"% ANNUAL)";0
890 FORMAT F7.2,F8.2,B," WILL BE ADDED TO"
900 WRITE (8,910)
910 FORMAT 20X, "ALL PAST DUE ACCOUNTS."
920 WRITE (5,930)
930 FORMAT /
940 [=[+4
950 WRITE (8,960)
960 FORMAT 35%, "VERY TRULY YOURS," - 3/
970 WRITE (8,*)TAB35,M$
980 MRITE (8,*)TAB35,8$
990 L=L+6
1000 FOR K=L TO 65
1010 WRITE (S:*)
1020 NEXT K
1030 WRITE (S,1040)95
1040 FORNAT Box
1050 DISP "TEAR PAPER NOW"
1060 WAIT 3000
1070 L=0
1080 MEXT I
10.
    PROGRAM TERMINATION
1890 DISP "SELECT KEY"
1100 END
```

PAST DUE LETTERS (BILL20)

1. PROGRAM INITIALIZATION

```
1 DIM A$[29],B$[15],C$[29],D$[29],E$[3],F$[6]
20 DIM G$[29], H$[29], [$[29], J$[3], K$[6], N[23]
30 DIM 2$[72],8$[30],M$[30],L$[20],N$[30],U$[20]
40 DIM U$[80],V$[80],W$[80],X$[80],Y$[80]
50 DISP "PAST DUE LETTERS"
60 WAIT 1500
70 FILES *, DATE
80 ASSIGN "MINV1" + 1 + I
90 IF IKS THEN 130
100 PRINT "MINVI NOT OPENED OR ILLEGAL PROTECTION KEY"
110 PRINT
120 STOP
130 IF END#1 THEM 1590
140 READ #1,8;NC1]
150 8=15
160 READ #1,7;R2,Z$
170 IF END#1 THEN 1590
180 DISP "ENTER YOUR COMPANY NAME";
190 INPUT OF
200 DISP "ENTER SENDERS NAME";
210 INPUT M#
220 DISP "ENTER SENDERS TITLE";
230 INPUT N#
240 READ #2,1;U$
250 DISP "ENTER PAST DUE DATE (M/D/Y)";
260 INPUT Z$
270 Z1=FNN(0)
280 IF Z1=0 THEN 250
290 DISP "ENTER TODAYS DATE (M/D/Y)";
300 INPUT Z$
310 Z2=FNN(0)
320 IF Z2=0 THEN 290
330 DISP "ENTER PHONE NUMBER (CODE & NO)";
340 INPUT L$
350 W=S0=L=0
360 J=1
```

PAST DUE LETTERS (COMTINUED)

<u>_</u>_________ READ A NEW RECORD 380 READ #1;MC10],NC11],NC12],NC13],NC14],NC15],NC15],NC16],NC17),NC18] 390 READ #11A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$,I\$,J\$ 400 READ #10K\$, NE 19], NE 20], NE 21], NE 22], NE 23] 410 AC1)=NC23 420 GOTO 590 430 READ #1.R1;NE1],NE2],NE3],NE4],NE5],NE6],NE6],NE7],NE8],NE9] 440 READ #1;NC10],NC11],NC12],NC13],NC14],NC15],NC16],NC17],NC18] 450 READ #13A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$,I\$,J\$ 460 READ #1;K*,NE19],NE20],NE21],NE22],NE23] 470 IF A[1]=N[2] THEN 530 480 AC1]=MC2] 490 IF W=0 THEN 530 500 GOSUB 1530 510 GOSUB 1110 520 W=0 530 RETURN MAIN CALLING SEQUENCE 540 PRINT #1,R1;ME1],NE2],NE3],NE4],NE5],HE6],NE7]-NE8],NE9] 550 PRINT #1;NE10],NE11],NE12],NE13],NE14],NE15],NE16],NE17],NE18] 560 PRINT #18A\$, B\$, C\$, D\$, E\$, F\$, G\$, H\$, I\$, J\$ 570 PRINT #1;K*,NE19],NE20],NE21],NE22],NE23] 580 RETURN **590** FOR R1=8 TO R2 600 GOSUB 430 610 IF M(3) >= Z1 THEM 700 620 IF N[16] <= 0 THEN 700 630 X1=Z2+0.12*(INTZ2-INTN[3]) 640 X1=INT((X1-INTX1-NE3]+INTNE3])*100) 650 IF X1 <= 0 THEN 700 660 IF W#0 THEN 680 670 GOSUB 770 **680** GOSUB 1300 690 W=W+1 700 IF R1#R2 THEN 740

PAST DUE LETTERS (CONTINUED)

```
MAIN CALLING SEQUENCE (CONTINUED)
710 IF W=0 THEN 1590
720 GOSUB 1530
730 GOSUB 1110
740 HEXT R1
750 GOTO 1590
760 REM START LETTER - HEADINGS
770 WRITE (8,780)0$,0
780 FORMAT 9/,10%,8,3/
790 WRITE (S,800)U$,0
800 FORMAT By/
810 WRITE (S.*)A$
820 WRITE (8,*)C$
830 WRITE (8,*)D*;",";" ";E*;" ";F*
840 WRITE (S,850)"DEAR SIR:",0
850 FORMAT 2/, B, /
860 IF J=1 THEN 930
870 DISP "TEAR PAPER NOW"
880 WAIT 3000
890 WRITE (S,900)J
900 FORMAT 9/, "PAGE", F5.0, 2/
910 L=L+17
920 GOTO 970
930 WRITE (S,940)0,"OUR RECORDS INDICATE THE FOLLOWING INVOICES ARE ",0
940 FORMAT 6X,2B,"PAST DUE."
950 WRITE (8:960)0,"Your ATTENTION TO THESE WOULD BE APPRECIATED.',0
960 FORMAT 28,2/
970 WRITE (S:980)0;
980 FORMAT 4X, "INVOICE", 3X, "P.O. NUMBER", 5%, "DATE", 8%, UNPAID 34%, "FINANCE", /
990 WRITE (S.1000)
1000 FORMAT 6%, "BALANCE"
1010 WRITE (S.1020)
1020 FORMAT 5X,"NUMBER",19X,"BILLED",6X,"BALANCE",5X,"CHARGE",9X,"DUE"
1030 WRITE (S:1040)0;
1040 FORMAT 4X, "======",3X,"=======",5X,"======",6X,'======",4X,8
1050 WRITE (8,1060)
1060 FORMAT "======",/
1070 IF J#1 THEM 1090
1080 |=| +31
1090 RETURN
```

PAST DUE LETTERS (CONTINUED)

```
MAIN CALLING SEQUENCE (CONTINUED)
1100 REM FINISH LETTER
1110 WRITE (8,1120)0,"IF THERE ARE ANY QUESTIONS PLEASE CONTACT ME AT",0;
1120 FORMAT 2/,6X,2B
1130 WRITE (8,1140)L$,0
1140 FORMAT X,8,".",2/
1150 WRITE (8,1160)
1160 FORMAT 35%, "VERY TRULY YOURS, ", 3/
1170 WRITE (8,*)TAB35,M$
1180 WRITE (S,*)TAB35,M$
1190 L=L+11
1200 FOR K=L TO 65
1210 MRITE (S, *)
1220 MEXT K
1230 WRITE (S:1240)95
1240 FORMAT B,/
1250 DISP "TEAR PAPER NOW"
1260 WAIT 3000
1270 L=0
1280 J=1
1290 RETURN
1300 X2=FNR((N[16]*N[17])/100)
1310 M[18]=N[18]+X2
1320 MC16]=NC16]+X2
1330 GOSUB 540
7. NEW PAGE
1340 IF L <= 42 THEN 1450
1350 WRITE (8,1360)
1360 FORMAT 4/,45%,"CONTINUED ON NEXT PAGE"
1370 L=L+5
1380 FOR K=L TO 65
1390 WRITE (S,*)
1400 NEXT K
1410 WRITE (8,1240)95
1420 L=0
1430 J=J+1
1440 GOSUB 860
```

PAST DUE LETTERS (CONTINUED)

9. PRINT A RECORD

- 1450 Z\$=" 1460 B\$[LEN(B\$)+1]=Z\$[1,10-LEN(B\$)] 1470 Z3=FNS(N[3]) 1480 WRITE (S,1490)N[1],B\$,S\$,0,N[16]-X2,X2,N[16]
- 1500 S0=80+NC16]
- 1510 L=L+1
- 1520 RETURN

6. TOTALS

- 1530 IF W=1 THEN 1580
- 1540 WRITE (8,1550)80
- 1550 FORMAT /,45%,"TOTAL",9%,F14.2
- 1560 80=0
- 1570 L=L+2
- 1580 RETURN

10. PROGRAM TERMINATION

- 1590 DISP "SELECT KEY"
- 1600 END
- 1610 DEF FNR(Z)
- 1620 RETURN INT((Z+0.005)*100)/100

PAST DUE LETTERS (CONTINUED)

```
11.
    DATE CONVERSION (STRING TO NUMERIC)
1630 DEF FNN(Z)
1640 Y$="1234567890."
1650 IF LEM(Z$)=0 THEM 1780
1660 M=INTVAL(Z$)
1670 GOSUR 1790
1680 IF LEN(Z$)=0 THEN 1780
1690 D=[NTVAL(Z*)
1700 GOSUB 1790
1710 IF LEN(Z$)=0 THEN 1780
1720 Y = INTVAL(Z$)
1730 Y=Y-INT(Y/100)*100
1740 IF Y>99 OR YK70 THEN 1780
1750 IF M>12 OR MK1 THEN 1780
1760 IF D>31 OR D<1 THEN 1780
1770 RETURN Y+M/100+D/10000
1780 RETURN 0
1790 FOR I=1 TO LEN(Z$)-1
1800 IF POS(Y$,Z$[[,I])=0 THEN 1820
1810 NEXT I
·1820 Z$=Z$[]+1]
1830 RETURN
     DATE CONVERSION (NUMERIC TO STRING)
1840 DEF FMS(Z)
1850 IF Z#0 THEN 1880
1860 S$="
1870 RETURN 0
1880 Y=INTZ
1890 M=[NT(100*(Z-INTZ))
1900 D=INT(100*(100*Z-INT(100*Z)))
1910 DEMPM,Ys
1920 S$=Y$[3]
1930 S#[3]="/"
1940 DEXPD,Y*
1950 S$[4]=Y$[3]
1960 S$[6]="/"
1970 DEXPY,Y$
1980 S#[7]=Y#[3]
1990 RETURN 0
```

MONTHLY TAX REPORT (CONTINUED)

```
A. SUBTOTALS (BY STATE)
1230 S$[LEN(S$)+1]=Z$[1,3-LEN(S$)]
1240 MRITE (S,1250)S$,T0,T1,T2,T3,T4
1250 FORMAT 20X,F15.2,X,F10.2,X,F10.2,X,F8.2,X,F8.2,X
1260 X0=X0+T0
1270 X1=X1+T1
1280 X2=X2+T2
1290 X3=X3+T3
1300 X4=X4+T4
1310 T0=T1=T2=T3=T4=T5=T6=T7=T8=T9=0
1320 L=L+2
1330 GOSUB 980
1340 RETURN
9. PRINT A RECORD
1350 IF R1#R2 OR L<53 THEN 1370
1360 GOSUB 1000
1370 Z#="
1380 IF LEN(A$)(26 THEN 1410
1390 A$=A$[1,26]
1400 GOTO 1420
1410 A$[LEN(A$)+1]=Z$[1,26-LEN(A$)]
1420 WRITE (8,1430) A$, NE5], NE6], NE7], NE8], NE9], 0
1430 FORMAT F12.2, X, F10.2, X, F10.2, X, F8.2, X, F8.2, B
1440 S0=S0+N051
1450 S1=S1+N061
1460 S2=S2+N07]
1470 S3=S3+N[8]
1480 S4=S4+N[9]
1490 L=L+1
1500 GOSUB 980
1510 RETURN
10. PROGRAM TERMINATION
1520 DISP "SELECT KEY"
```

1530 END

MONTHLY TAX REPORT (CONTINUED)

7. NEW PAGE 980 IF L <= 61 THEN 1070 990 IF R1=R2 THEN 1070 1000 FOR I=L TO 65 1010 WRITE (S,*) 1020 NEXT I 1030 WRITE (S,740)95 1040 L=0 1050 J=J+1

8. SUBTOTALS (BY CITY)

1060 GOSUB 760 1070 RETURN

```
1080 IF LEN(S$) >= 20 THEN 1110
1090 S$[LEN(S$)+1]=Z$[1,20-LEN(S$)]
1100 GOTO 1120
1110 S$=S$[1,20]
1120 WRITE (S,1130)S$,S0,S1,S2,S3,S4
1130 FORMAT 6X,F12.2,X,F10.2,X,F10.2,X,F8.2,X,F8.2,/
1140 T0=T0+S0
1150 T1=T1+S1
1160 T2=T2+S2
1170 T3=T3+S3
1180 T4=T4+S4
1190 S0=S1=S2=S3=S4=S5=S6=S7=S8=S9=0
1200 L=L+2
1210 GOSUB 980
1220 RETURN
```

MONTHLY TAX REPORT (CONTINUED)

```
4. MAIN CALLING SEQUENCE
660 IF RIDR2 THEM 700
670 GOSUB 260
680 Ri=Ri+1
690 GOTO 660
700 FOR I=L TO 65
710 WRITE (S,*)
720 NEXT I
730 WRITE (8,740)95
740 FORMAT B,/
750 GOTO 1520
5. PAGE NUMBER AND MEADING
760 IF J=1 THEN 820
770 DISP "TEAR PAPER NOW"
780 WAIT 3000
790 WRITE (S,800)J
800 FORMAT /, "PAGE", F5.0, 2/
810 L=L+6
820 WRITE (S:830)
830 FORMAT 69X,"TAXES"
840 WRITE (8,850)0;
                                 SALES FREIGHT SERVICE "+8
850 FORMAT " CUSTOMER NAME
860 WRITE (8,870)
870 FORMAT "CITY
                 STATE"
880 WRITE (S,890)0;
900 WRITE (8,910)
910 FORMAT "====",4X,"=====",/
920 L=L+4
930 RETURN
6. TOTALS
940 WRITE (8,950)X0,X1,X2,X3,X4
950 FORMAT /,2X,"TOTAL",19X,F12.2,X,F10.2,X,F10.2,X,F8.2,X,F8.2
960 L=L+2
970 RETURN
```

MONTHLY TAX REPORT (CONTINUED)

```
2.
   PRINT A NEW RECORD (CONTINUED)
360 IF V$=C$ THEN 400
370 S$=V$
380 V#=C#
390 GOSUB 1080
400 IF US=DS THEM 440
410 S$=U$
420 Us=Ds
430 GOSUB 1230
440 IF L1 THEN 480
450 IF L <= 59 THEN 500
460 GOSUB 1000
470 GOTO 500
480 IF L <= 57 THEN 500
490 GOSUB 990
500 GOSUB 1350
510 IF R1=R2 THEN 530
520 RETURN
530 S$=V$
540 GOSUB 1080
550 S#=U#
560 GOSUB 1230
570 GOTO 940
З.
    REPORT TITLE
580 J=1
590 WRITE (8,600)
600 FORMAT 2/,31%,"MONTHLY TAX REPORT"
610 WRITE (8,*)TAB(40-(LEM(Z$)/2));Z$
620 MRITE (8,630)
630 FORMAT 2/
640 L=L+9
650 GOSUB 760
```



MONTHLY TAX REPORT (BILL22)

PROGRAM INITIALIZATION] , 1 DIM A\$[29], B\$[29], C\$[29], D\$[3], E\$[6], F\$[29] 20 DIM G\$[29],H\$[29],I\$[3],J\$[6],K\$[2],N[14] 30 DIM Z\$[72],S\$[72],O\$[29],P\$[29],Q\$[29],R\$[3] 40 DIM U\$[80],V\$[80],W\$[80],X\$[80],Y\$[80] 50 FILES **DATE 60 ASSIGN "CUST2",1,I 70 IF IK3 THEN 110 80 PRINT "CUST2 NOT OPENED OR ILLEGAL PROTECTION KEY" 90 PRINT 100 STOP 110 READ #1,7;R2,Z\$ 120 30=81=82=83=84=85=86=87=88=89=T0=T1=T2=T3=T4=T5=T6=T7=T8=T9=0 130 U@=U1=U2=U3=U4=U5=U6=U7=U8=U9=V0=V1=V2=V3=V4=V5=V6=V7=V8=V9=0 140 WG=W1=W2=W3=W4=W5=W6=W7=W8=W9=X0=X1=X2=X3=X4=X5=X6=X7=X8=X9=0 150 R1=8 160 L=Ø 170 IF END#1 THEN 1520 180 READ #2,1;Z\$

2. READ A NEW RECORD

190 8=15

```
200 READ #1,8;N[1],A$,B$,C$,D$,E$,F$,G$,H$
210 READ #1;[$,J$,N[2],K$,N[3],N[4],N[5],N[6],N[7]
220 READ #1;N[8],N[9],N[10],N[11],N[12],N[13],N[14]
230 U#=D#
240 V#=C#
250 GOTO 580
260 READ #1,R1;N[1],A$,B$,C$,D$,E$,F$,G$,H$
270 READ #1; [$, J$, N[2], K$, N[3], N[4], N[5], N[6], N[7]
280 READ #1; NE8], NE9], NE10], NE11], NE12], NE13], NE14]
290 IF R1=R2 THEN 360
300 READ #1.R1+1;B[1].O$,P$.Q$,R$
310 IF Q#=C# THEN 360
320 IF R##D# THEN 350
330 L1=0
340 GOTO 360
350 Li=1
```

CUSTOMER LISTING (BILL23)

PROGRAM INITIALIZATION 1 DIM A\$[29], B\$[29], C\$[29], D\$[3], E\$[6], F\$[29] 20 DIM G\$[29], H\$[29], [\$[3], J\$[6], K\$[2], N[14] 30 DIM Z#[72],S#[72] 40 DIM U\$[80],V\$[80],W\$[80],X\$[80],Y\$[80] 50 DISP "CUSTOMER LISTING" 60 WAIT 1500 70 FILES *, DATE 80 ASSIGN "CUST1",1,1 90 IF IK3 THEN 130 100 PRINT "CUST1 NOT OPENED OR ILLEGAL PROTECTION KEY" 110 PRINT 120 STOP 130 READ #1,7;R2,Z# 140 8=15 150 R1=8 160 L=0 170 IF END#1 THEN 810 180 READ #2,1;Z\$ READ A NEW RECORD 2. 190 READ #1,85N[1],A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$ 200 READ #1;[\$,J\$,N[2],K\$,N[3],N[4],N[5],N[6],H[7] 210 READ #1; NC8], NC9], NC10], NC11], NC12], NC13], NC14] 220 GOTO 270 230 READ #1,R1;NC1],A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$ 240 READ #1; [\$, J\$, N[2], K\$, N[3], N[4], N[5], N[6], N[7] 250 READ #1;NC8],NC9],NC10],NC11],NC12],NC13],NC14] 260 GOTO 690 ÷. REPORT TITLE 270 J=1 280 WRITE (5,290) 290 FORMAT 2/,29%, "CUSTOMER FILE LISTING" 300 WRITE (S.*)TAB(40-(LEN(Z*)/2));Z* 310 WRITE (8,320) 320 FORMAT 2/ 330 L=L+9 340 GOSUB 450

CUSTOMER LISTING (CONTINUED)

4. MAIN CALLING SEQUENCE

```
350 IF Ri)R2 THEM 398
360 GOSUB 230
370 Ri=Ri+1
380 GOTO 350
390 FOR I=L TO 65
400 WRITE (S,*)
410 MEXT I
420 WRITE (S.430)95
430 FORMAT B.7
```

440 GOTO 810

5. PAGE NUMBER AND HEADING

CUSTOMER LISTING (CONTINUED)

```
7. NEW PAGE
590 IF L <= 58 THEN 680
600 IF R1=R2 THEM 680
610 FOR I=L TO 65
620 WRITE (S:*)
630 NEXT I
640 WRITE (8,430)95
650 L=0
660 J=J+1
670 GOSUB 450
680 RETURN
9. PRINT A RECORD
690 Z#="
700 A$[LEN(A$)+1]=Z$[1,29-LEN(A$)]
710 X1=NE 103+NE113+NE123+NE133+NE143
720 WRITE (8,730)M[1],A$,N[2],X1
730 FORMAT F10.0,6X,F12.2,2X,F16.2
740 WRITE (S,770)B$,0
750 WRITE (8,770)C$,0
760 WRITE (S,770)D*;", ";E*,0
770 FURMAT 18X.B
780 L=L+4
790 GOSUB 590
800 RETURN
10.
   PROGRAM TERMINATION
810 DISP "SELECT KEY"
820 END
```

DAILY REGISTERS (BILL24)

PROGRAM INITIALIZATION 1 DIM A*[29], B*[15], C*[29], D*[29], E*[3], F*[6] 20 DIM G\$[29],H\$[29],I\$[29],J\$[3],K\$[6],N[23] 30 DIM Z#[72], S#[72] 40 DIM U\$[80], V\$[80], W\$[89], X\$[80], Y\$[80] 50 DISP "DAILY REGISTERS" 60 WAIT 1500 70 FILES * DATE 80 ASSIGN "DINV2":1:I 90 IF 1<3 THEN 130 100 PRINT "DINV2 NOT OPENED OR ILLEGAL PROTECTION KEY" 110 PRINT 120 STOP 130 READ #1.7;R2,Z# 140 80=81=82=83=84=85=86=87=88=89=0 150 8=15 160 R1=8 170 L=0 180 IF END#1 THEN 980 190 READ #2,1;Z\$ 2. READ A NEW RECORD 200 READ #1,8;NE13,NE23,NE33,NE43,NE53,NE63,NE73,NE83,NE93 210 READ #1;M[10].N[11].N[12].N[13].N[14].N[15].N[16].N[17].N[18] 220 READ #1; A\$, B\$, C\$, D\$, E\$, F\$, G\$, H\$, I\$ 230 READ #1;J\$,K\$,N[19],N[20],N[21],N[22];N[23] 240 GOTO 330 250 READ #1,R1;N[1],N[2],N[3],N[4],ME5],N[6],N[6],H[8],H[8],N[9] 260 READ #1;NC10],NC11],NC12],NC13],NC14],NC15],NC16],NC16],NC17],NC18] 270 READ #1;A\$,B\$,C\$,D\$,E\$,F\$,G\$,H\$,I\$ 280 READ #1:J\$,K\$,NE191,NE201,NE211,NE221.NE231 290 GOSUB 870 300 IF R1#R2 THEN 320 310 GOTO 730 320 RETURN

DAILY REGISTERS (CONTINUED)

```
3. REPORT TITLE
330 J=1
340 WRITE (S.350)
350 FORMAT 2/,23%,"DAILY INVOICE TRANSACTION REGISTER"
360 WRITE (S,370)
370 FORMAT 30%,"(EXCLUDES SALES TAX)"
380 WRITE (S,*)TAB(40-(LEN(Z$)/2));Z$
390 URITE (S,400)
400 FORMAT 2/
410 L=L+10
420 GOSUB 550
di.
   MAIN CALLING SEQUENCE
430 IF RI>R2 THEN 470
440 GOSUB 250
450 R1=R1+1
460 GOTO 430
470 FOR I=L TO 65
480 WRITE (S,*)
490 MEXT I
<mark>500 WRITE (8,510</mark>)95
510 FORMAT Boz
520 DISP "TEAR PAPER NOW"
530 WAIT 3000
540 GOTO 980
PAGE NUMBER AND HEADING
550 IF J=: THEN 610
560 DISP "TEAR PAPER MOW"
570 WAIT 3000
580 WRITE (S.590)J
590 FORMAT /,"PAGE",F5.0,2/
600 L=L+6
```

DAILY REGISTERS (CONTINUED)

```
5. PAGE HUMBER AND HEADING (CONTINUED)
610 WRITE (S,620)0;
620 FORMAT 2X, "CUSTOMER", 3X, "INVOICE", 8X, "BILL", 6X, B
630 WRITE (S:640)
640 FORMAT "FREIGHT",5X, "SERVICE",4X, "DATE",7X, "DISC"
650 WRITE (8,660)
660 FORMAT 4X,"NUMBER",4X,"NUMBER",7X,"AMOUNT",27X,"BILLED':6X,"PERC"
670 WRITE (8,680)0;
680 FORMAT 2X,"======",7X,"======",5X,8
690 WRITE (8,700)
700 FORMAT "======",5%,"======",3%,"======",6%,"=====',/
710 L=L+4
720 RETURN
6. TOTALS
730 WRITE (S,740)80,81,52
740 FORMAT /,13X,"TOTAL",5X,F10.2,3X,F9.2,3X,F9.2
750 L=L+2
760 RETURN
7. NEW PAGE
770 IF L <= 61 THEN 860
780 IF R1=R2 THEN 860
790 FOR I=L TO 65
800 WRITE (S,*)
810 HEXT I
820 WRITE (S:510)95
830 L=0
840 J=J+1
850 GOSUB 550
860 RETURN
```

DAILY REGISTERS (CONTINUED)

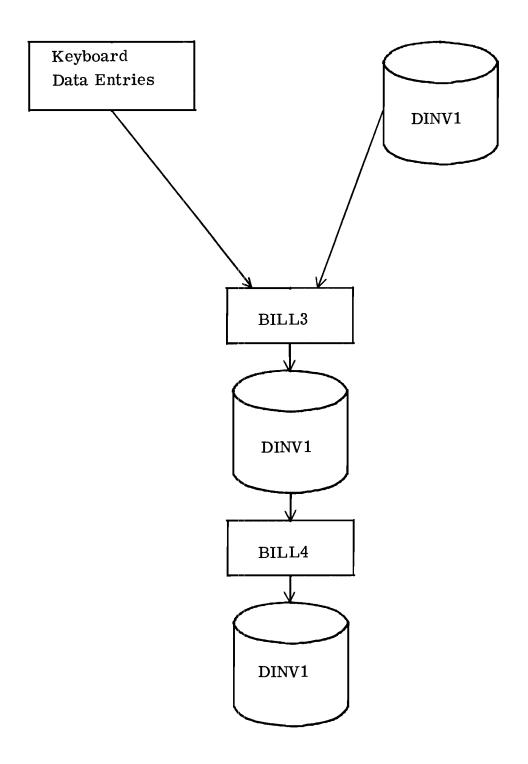
```
9. PRINT A RECORD
870 1F R1#R2 OR L <= 59 THEN 890
880 GOSUB 790
890 Z1=FMS(ME3])
900 URITE ($,910)N[2],N[1],N[4],N[5],N[6],S$,0,N[10]
910 FORMAT F10.0,X,F9.0,3X,F10.2,3X,F9.2,3X,F9.2,X,B,3X,F7.2
920 S0=S0+N[4]
930 S1=S1+N(5]
940 S2=S2+N[6]
950 L=L+1
960 GOSUB 770
970 RETURN
10.
    PROGRAM TERMINATION
980 PRINT #2,3;1
990 GET "BILL15",1,1
1000 END
11. DATE CONVERSION
1010 DEF FNS(2)
1020 IF Z#0 THEN 1050
1030 S#="
1040 RETURN 0
1050 Y=INTZ
1060 M=INT(100*(Z-INTZ))
1070 D=IMT(100*(100*Z-INT(100*Z)))
1080 DEXPN:Y$
1090 S#=Y#[3]
1100 3$[3]="/"
1110 DEXPD:Y$
1120 S#[4]=Y#[3]
1130 8#16]="/"
1140 DEXPY,Y#
1150 S $ [ 7 ] = Y $ [ 3 ]
```

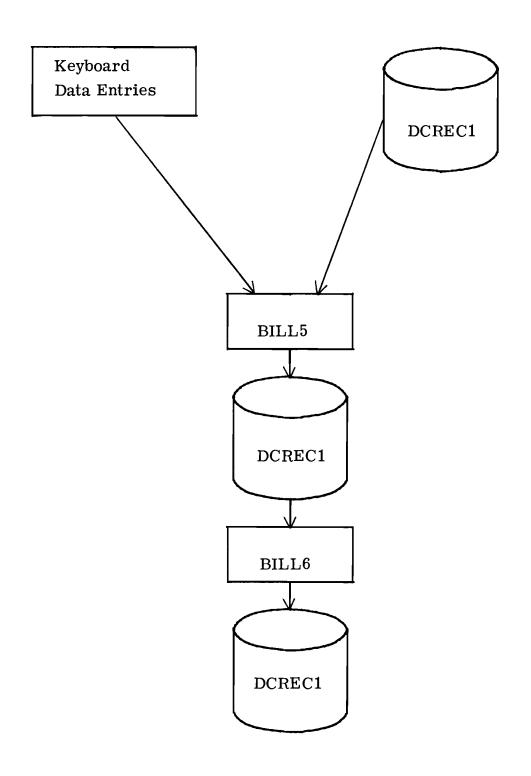
1160 RETURN 0

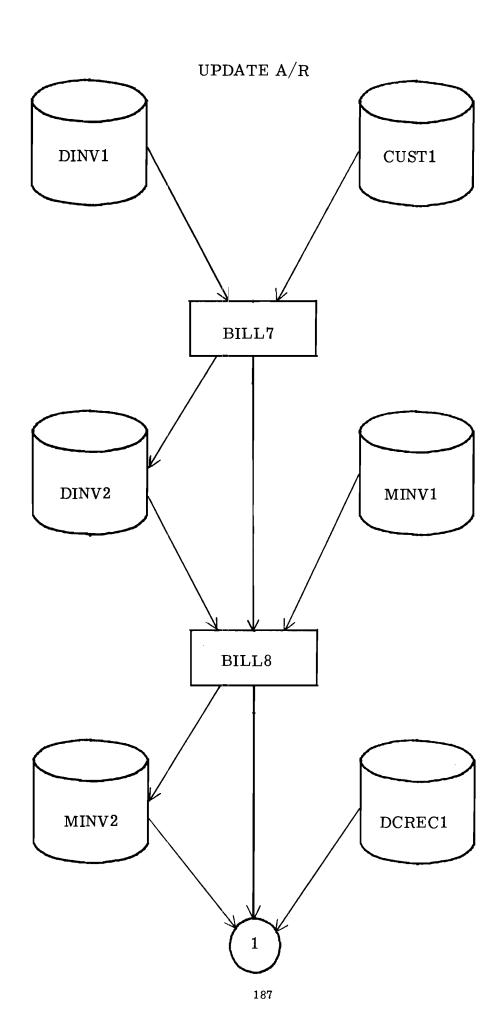
Appendix E

FLOW CHARTS

NEW INVOICES



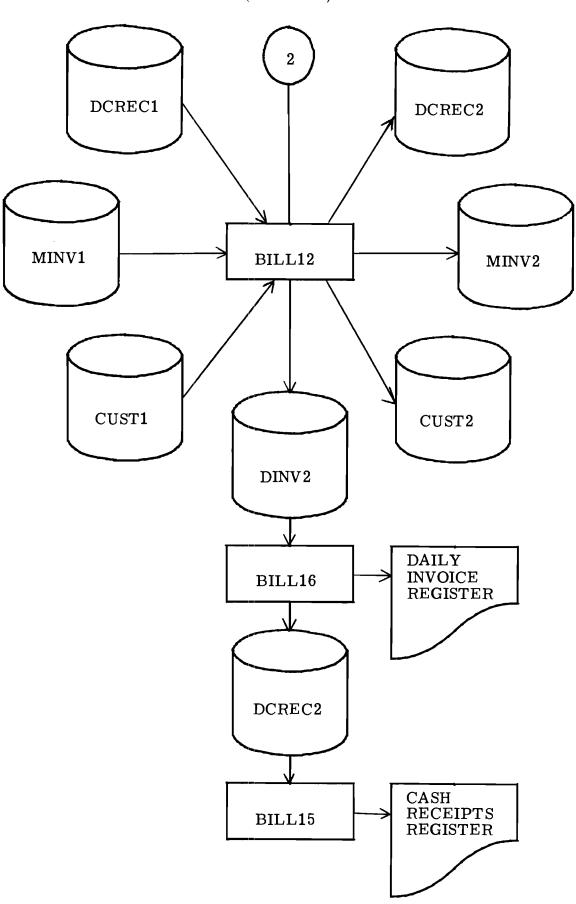




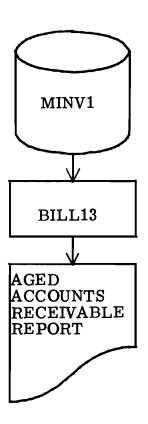
UPDATE A/R (continued) BILL9 MINV1BILL10 MINV2CUST1 DINV2 BILL11 2 CUST2

188

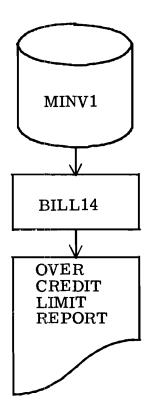
UPDATE A/R (continued)



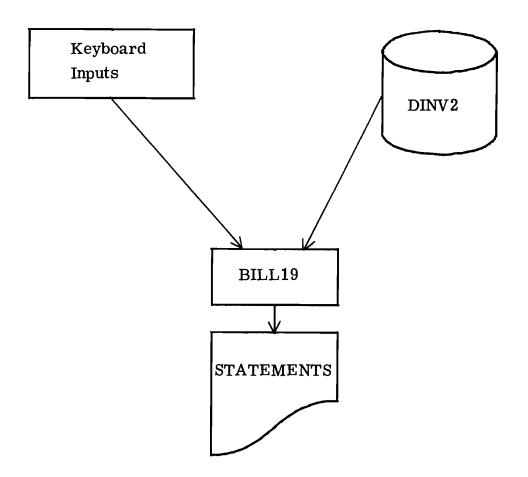
AGED A/R REPORT

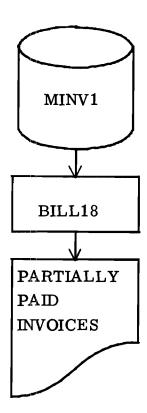


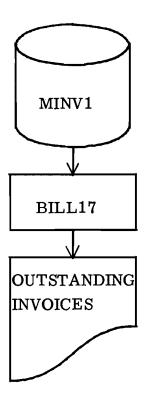
OVER CREDIT LIMIT



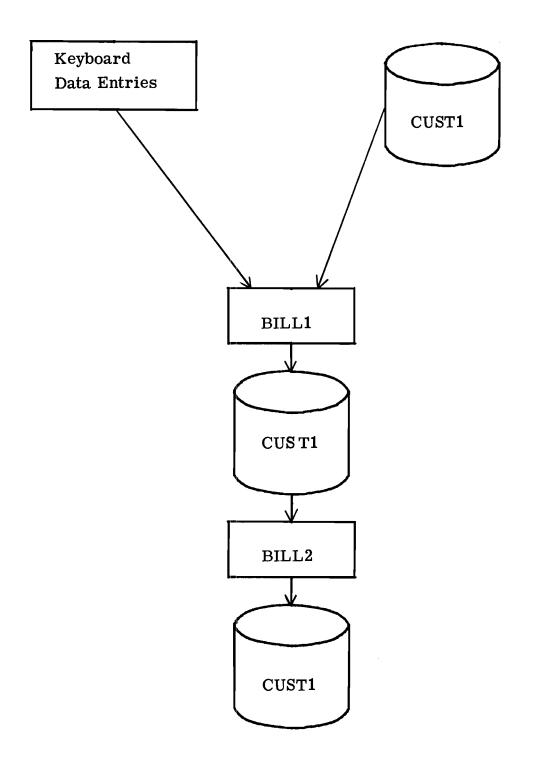


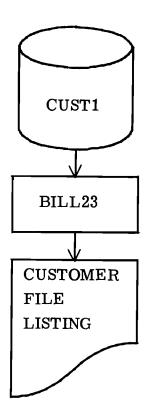


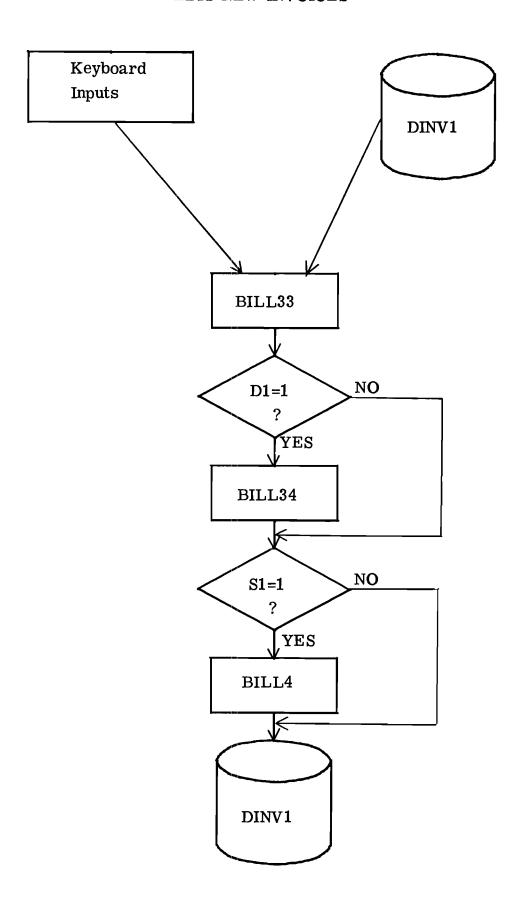


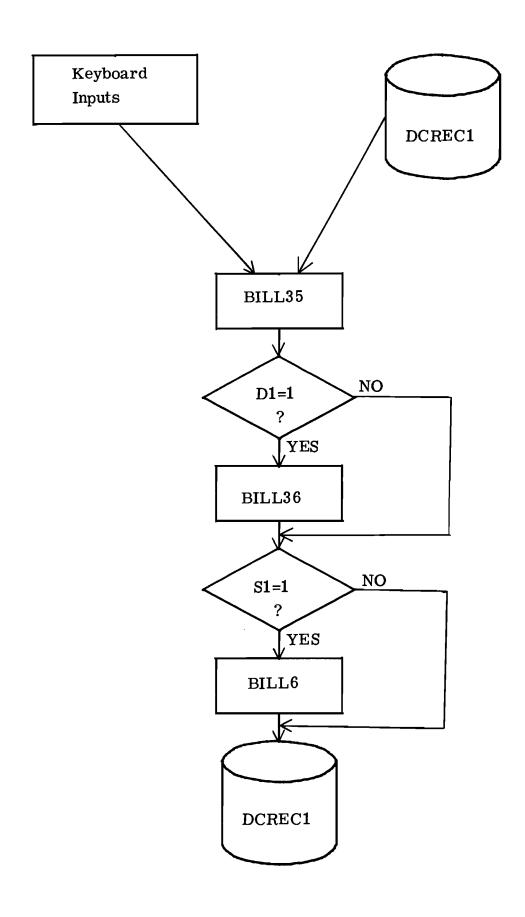


ADD CUSTOMERS

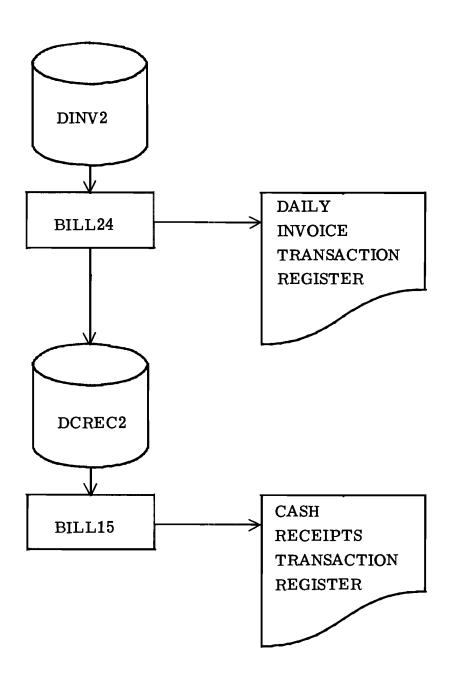


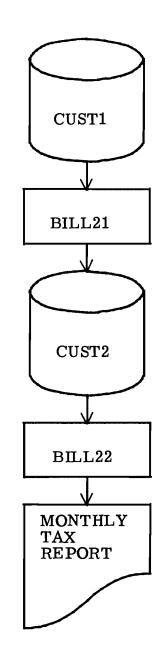




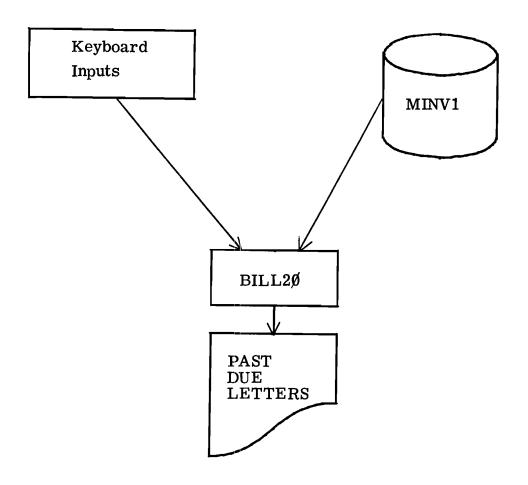


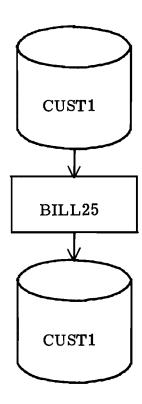
DAILY REGISTERS

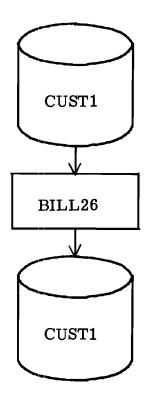


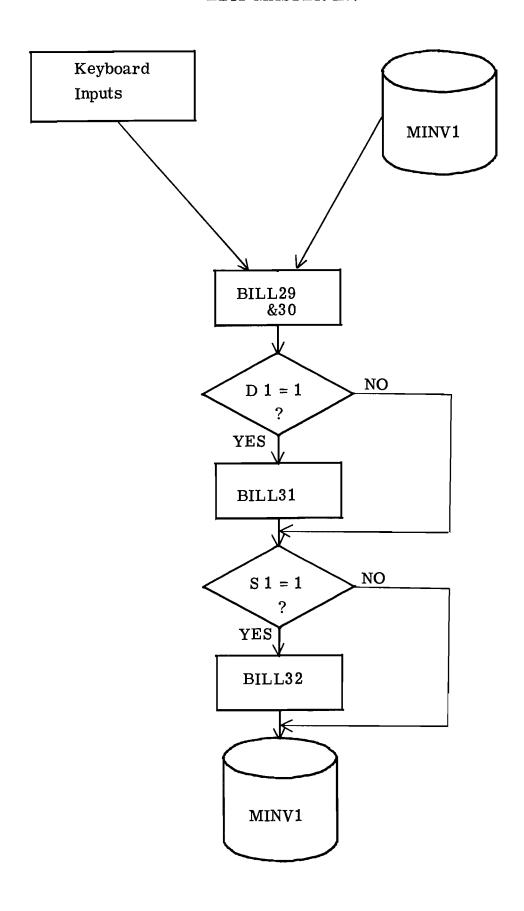


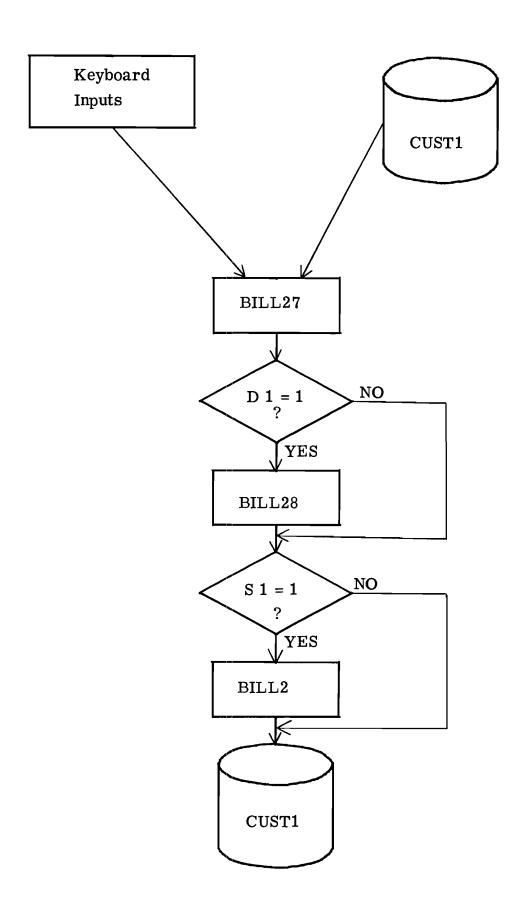
PAST DUE LETTERS

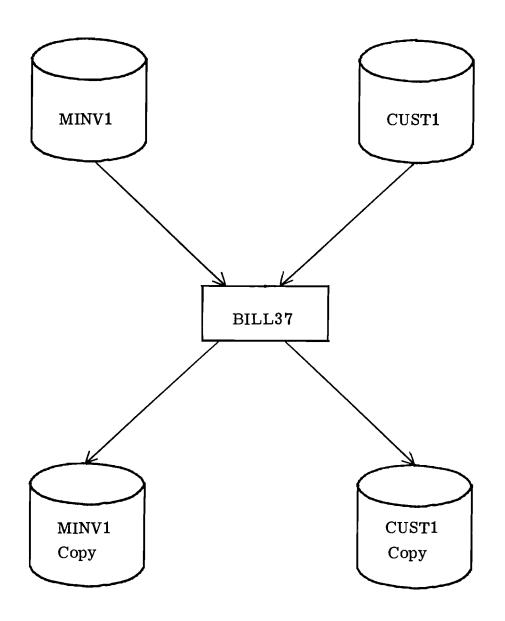












Program Submittal Form

Hewlett-Packard Company Calculator Products Division

1.	Initial Submission Revision					
2.	Equipment required:					
3.	Program Title:					
4.	Program Description and Application:					
5.	Contributor's Name:					
	Organization: Title:					
	Address:					
	Telephone:					
6.	Do you want your name to appear in the catalog? yes no					
7.	Do you want your organization's name to appear in the catalog?yes no					
8.	May an HP customer contact you directly?yes no					
9.	Check (\checkmark) to be sure each item below is included.					
	Program introduction, including equations solved and text reference. User instructions.					
	Numeric input/output example, including sample plot or printer tape if applicable. Program listing (including program steps and step codes if applicable). Recorded magnetic cards or cassette.					
	Shall we return original recorded cards/cassette or blank cards/cassette ?					
.0.	Acknowledgement and Agreement					
	To the best of my knowledge, this contributed program is free of any proprietary information belonging to any person or organization. I am making this program available to Hewlett-Packard, and I agree that HP may reproduce, publish, and use it, and authorize others to do so without obligation or liability of any kind.					
	(Signature) (Date)					

