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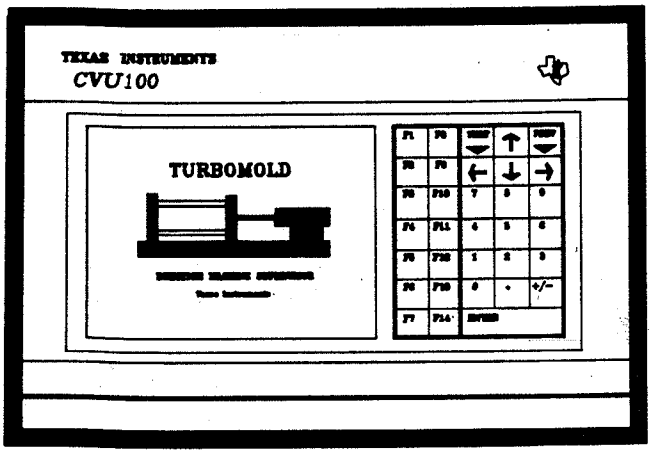
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CVU100 Organizer
Programming/Documentation System
for
Texas Instruments CVU100 Terminal



Features

- Backup/restore of CVU100 programs
  - Upload from CVU100 to IBM, download from IBM to CVU100
- Programming
  - Create new programs and download to CVU100
  - Copy programs from one file into another
  - Upload from CVU100 and edit existing programs
- Cross references
  - Locates, counts, and sorts registers in programs
  - Builds register data base
- Produce reports to display on screen or output to printer
  - Print register cross reference
  - Print line number file
  - Print all registers, or programs
  - Search and print single registers, or programs

Suggested Retail Price $350.00

Distributed by:

Overview

The CVU100 Organizer is designed to allow creating, editing, and storing CVU100 Terminal programs on an IBM-compatible PC. This programming /documentation system allows quicker and easier editing of OIL programs created on a CVU100 terminal.

Creating new programs or editing existing programs can easily be achieved from within the CVU100 Organizers Dynamic Ascii Text editor.

With the CVU100 Organizer you can create complete libraries of screens on a disk to be used individually or in combinations.

The CVU100 Organizer also locates, sorts, and counts registers in programs and then builds a register data base. Register cross references, line number files, and all registers or programs generated using the CVU100 Organizer can be output to a printer or displayed on the screen. Single registers or programs can also be searched for and printed.

The CVU100 Organizer software is menu-driven and easily installed and removed.

Hardware requirements: The CVU100 Organizer is designed to operate on IBM Personal Computers and Compatibles.

Computer: Hard disk system (10 Mbytes) with 512 Kbytes memory, keyboard, CGA., EGA, VGA, or Hercules card. IBM compatible printer (optional).

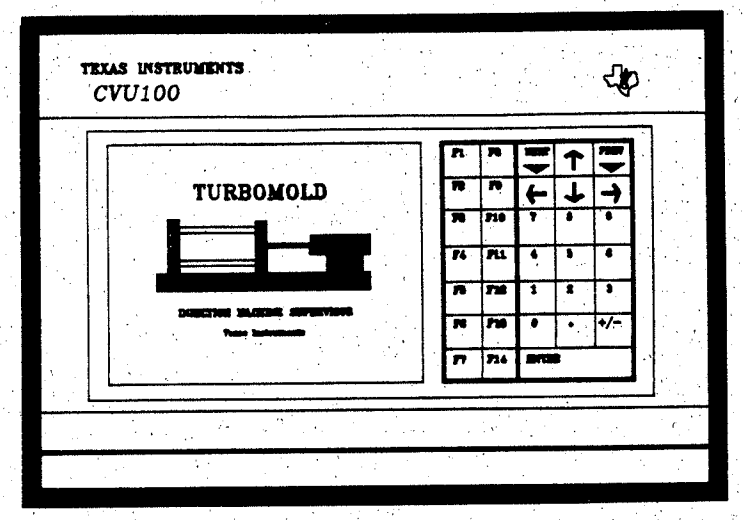
Genesis Software • P.O. Box 506 • Taft, CA 93268-0506 • (805) 765-4858

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CVU100 ORGANIZER

Programming/Documentation System
for
Texas Instruments CVU100 Terminal



Ver 2.0
USER's MANUAL

GENESIS SOFTWARE

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1.0 GENERAL OPERATING & COMPATIBILITY INSTRUCTIONS

This CVU100 Organizer program represents an initial release that is very likely to change as more functions are added and users find features that can be improved or that allow greater flexibility.

The CVU100 Organizer, now combined with a Dynamic Ascii text editor, is designed to allow creation, editing, and storage of CVU100 Industrial Terminal programs on an IBM compatible personal computer.

It allows files stored on disk to be down loaded to an Industrial Terminal, as well as uploaded from an Industrial Terminal.

The user can create complete libraries of screens on disk that can be used individually or in combination for a variety of projects.

To create new programs on an IBM compatible, simply go into the Edit mode and select "Initialize". This will create a new file with the necessary escape sequences and program numbers 1 thru 255. Then use the CVU100 Editor to create your new programs and subsequently download to the CVU100 Terminal.

This release was written to execute on an IBM XT or IBM AT using the standard Async communications card. It has been run on PC's, XT's, AT's and other compatible computers although variations within the software and hardware may require different cabling from that described as well as modifications to the CVU100 Organizer program.

Genesis Software will attempt to provide assistance where possible, but cannot warrant that this program and instructions will apply to all hardware and configurations.

INSTALLATION / DE-INSTALLATION

To install the disk, insert CVU100 Organizer disk into floppy drive and log on to that drive. Next execute TIINSTALL.COM. This will create a CVU100 directory on C: drive for the CVU100 Organizer programs. Now to operate simply change to the CVU100 directory and execute CVU100.EXE.

CVU100 Organizer is de-installed or removed from the user's computer fixed disk drive by running the program TIRECALL.COM on the master disk. First, place the master disk in a floppy drive such as A:. At the DOS prompt enable the de-installation routine by executing "TIRECALL.COM". This routine will prompt for all information needed to remove CVU100 Organizer.

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2.0 CVU100 SERIAL PORT CONFIGURATION

In order for this software to operate correctly the CVU100 Terminal must be configured for these settings.

0 Parity - 0=ZERO 1=ONE 2=EVEN 3=ODD
0 1=Parity Enabled .....0=Disabled
1 1=8 Data Bits .....0=7 Data Bits
1 1=Full Duplex .....0=Half Duplex
1 1=Handshaking Enabled .....0=Disabled
0 1=RTS/CTS Handshaking .....0=Xon/Xoff
0 1=Echo Input .....0=Don't Echo Input

For this release of CVU100 Organizer, the IBM compatible is wired into the primary serial port of the CVU100 Industrial Terminal and should be compatible with all option boards. The CVU100 Organizer software automatically configures with these defaults.

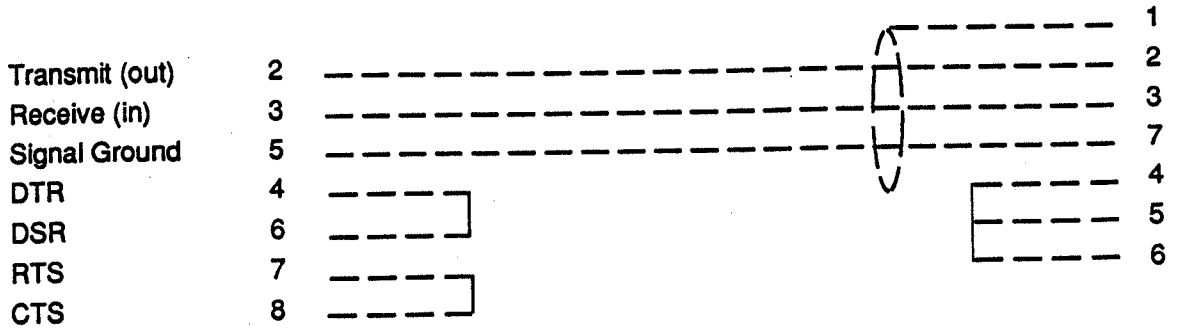
THE COM PORT LAST USED
THE BAUD RATE LAST USED
NO PARITY
8 DATA BITS

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3.0 WIRING CONFIGURATION

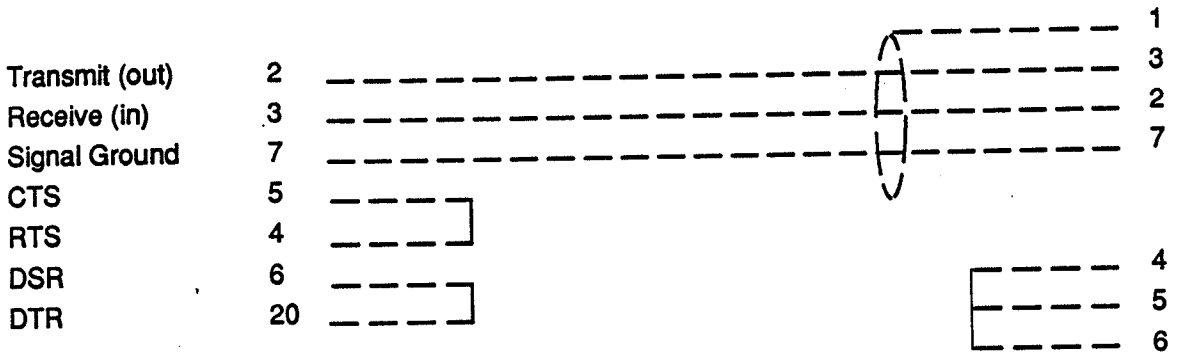
IBM AT COMMUNICATION CARD (9 PIN FEMALE)

CVU100 PRIMARY SERIAL COMMUNICATION PORT (25 PIN MALE)



IBM XT COMMUNICATION CARD (25 PIN FEMALE)

CVU100 PRIMARY SERIAL COMMUNICATION PORT (25 PIN MALE)



These instructions on wiring at the IBM end of the cable appear to be correct based on our hardware, HOWEVER, there are a great number of variations betwen various communication cards on IBM PC compatibles. As a matter of practice, the user should verify that the card being used is connected properly.

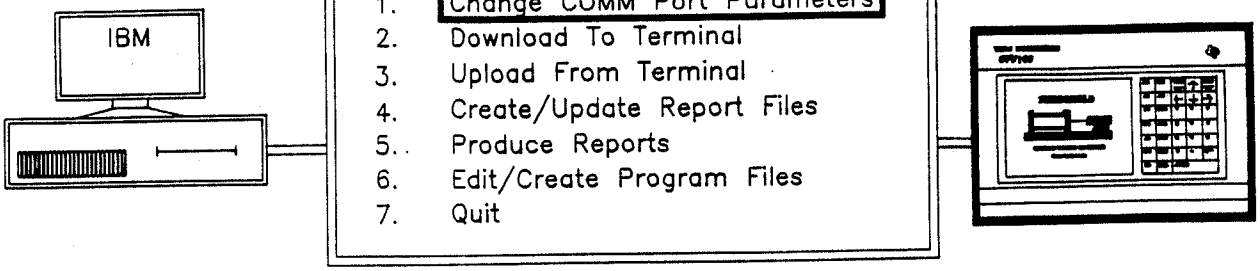
The following data appears valid as of the date of this release.

Signal Name	IBM	Async Card	IBM Combo Card	IBM AT
Transmit (out)	Pin	2	2	3
Receive (in)	Pin	3	3	2
Signal ground	Pin	7	7	5
CTS	Pin	5	5	8
RTS	Pin	4	4	7
DCD	Pin	8	8	1
DSR	Pin	6	6	6
DTR	Pin	20	9	4
Total number of pins		25	9	9

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4.0 Parameters

USE : ↑ / ↓ and <RETURN> or number to make selection



DESCRIPTION

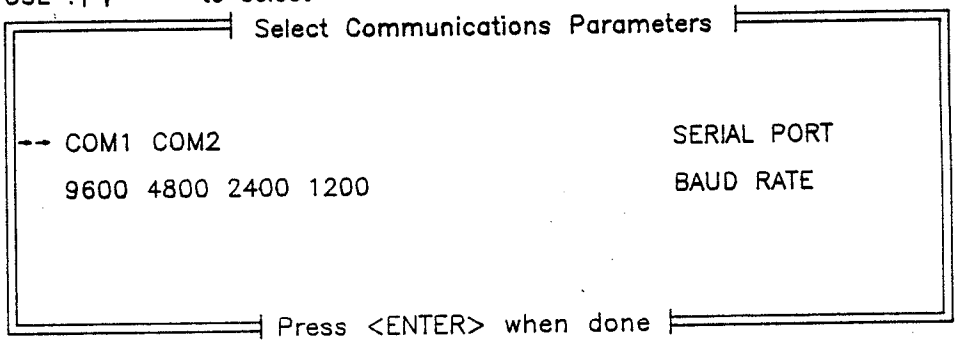
This option enables you to :
Change COM port and BAUD rate.

WARNING !!! ---> Make sure Parameters match CVU100 Terminal.
Refer to manual for CVU100 serial port configuration.

ONCE OPTION #1 IS SELECTED, THE FOLLOWING MENU WILL BE DISPLAYED

DEFAULT Parameters are : Last COM port, & BAUD rate used, N, 8, 1

USE : ↑ ↓ → ← to select Defaults are : ——



CAUTION

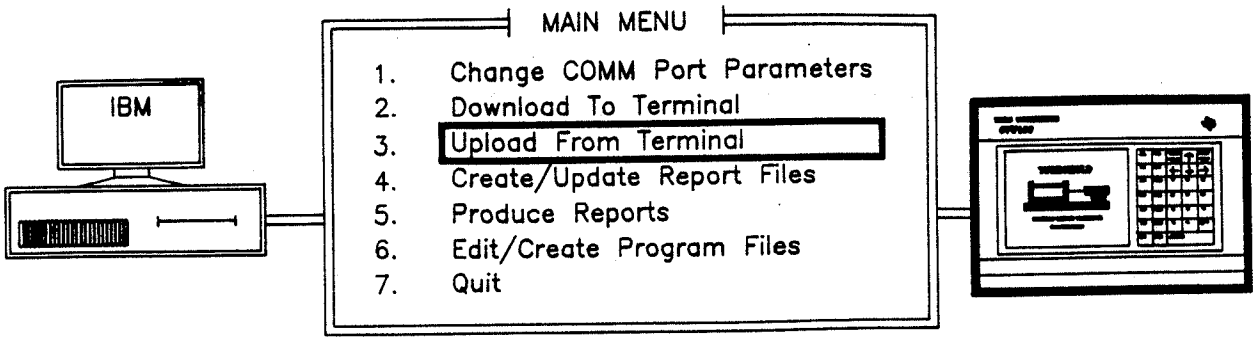
Select Parameters to match CVU100 Terminal.

Refer to manual for CVU100 Terminal configuration.

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5.0 Uploading to IBM Compatible

USE : ↑ / ↓ and <RETURN> or number to make selection



DESCRIPTION

This option enables you to :
Upload programs or registers from a CVU100 Terminal
to the hard disk of an IBM PC.
A file with extension .DLD and the base name you provide
will be created.
From this file, Option 4. produces the report files.
This file can be edited and then downloaded to the Terminal.
If registers are uploaded, .ZRO will be created instead.

ONCE OPTION #3 IS SELECTED, THE FOLLOWING MENU WILL BE DISPLAYED

USE: ↑ ↓ and <RETURN> or number to make selection

UPLOAD

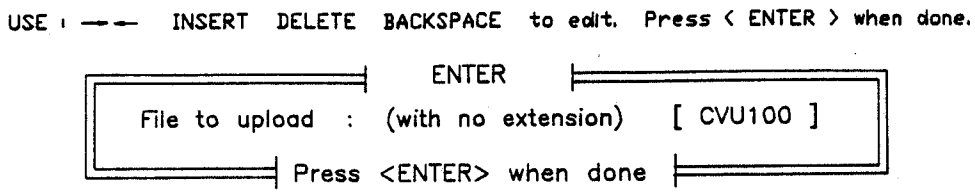
1. Programs
2. Registers
3. Main Menu

UPLOAD PROCEDURES, continued on next page.

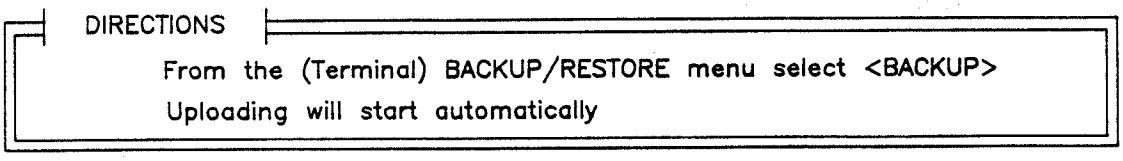
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5.1 Uploading to IBM Compatible, continued from previous page.

Once Programs or Registers are selected, the following screen will be displayed. Enter the file name you want to give the data that will be uploaded (with no extension)



Once the file name has been entered, the following screen will appear.



Please read the following instructions before continuing.

Now on the CVU100 Terminal select the options in this order.

1. Select #3 (BACKUP/RESTORE).
2. Select #1 (BACKUP PROGRAMS).
3. Select either (P) for programs, or (R) for Registers.
   DO NOT SELECT (A) FOR ALL.
   Programs and registers MUST be uploaded seperately.
4. If (P) programs, select program number, or (A) for all programs.
5. If (R) registers, the Terminal will begin sending data.

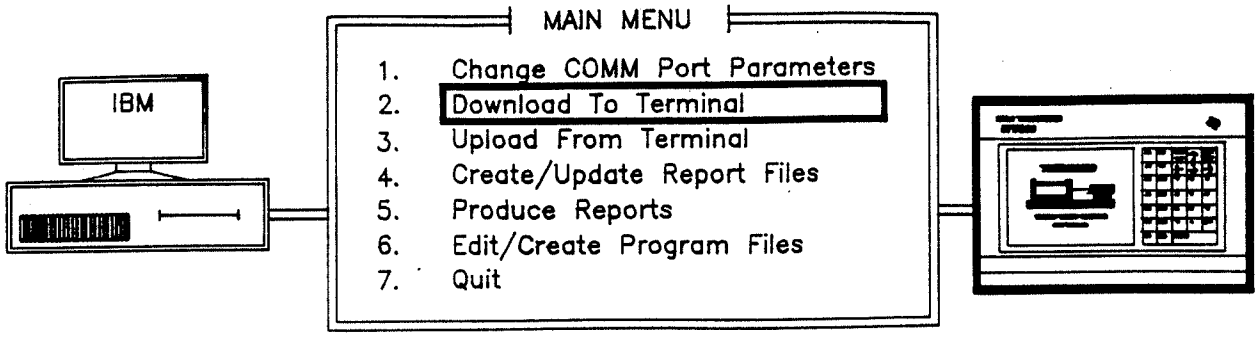
ONCE UPLOAD IS COMPLETE, PRESS ANY KEY

It will automatically create a .DLD file.

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6.0 Downloading to CVU100

USE : ↑ / ↓ and <RETURN> or number to make selection



DESCRIPTION

This option enables you to :
Download Programs, Registers, or a file
you created and/or modified with the Editor.

ONCE OPTION #2 IS SELECTED, THE FOLLOWING MENU IS DISPLAYED

USE: ↑ ↓ and <RETURN> or number to make selection

DOWNLOAD

1. All Programs
2. Single Program
3. Registers
4. Main Menu

DOWNLOAD PROCEDURES, continued on next page.

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If programs were selected (all or single), the following menu will be displayed, expecting you to type a file name with a .DLD extension. (.DLD files are automatically created when you upload a program from the CVU100 Terminal.

USE : → ← INSERT DELETE BACKSPACE to edit Press <ENTER> when done

```
ENTER
File to download :  (with extension)  [ CVU100.DLD ]
Press ENTER when done
```

IF SINGLE PROGRAM WAS SELECTED, the following menu will also be displayed

USE : → ← INSERT DELETE BACKSPACE to edit Press <ENTER> when done

```
ENTER
ENTER Program #   [010]
Please
```

If Registers were selected the following "CAUTION" will be displayed.

```
On the CVU100 Terminal, XON/XOFF must be set to off.
R=Ready Q=Quit M=Main Menu
```

Once Ready is selected, the following menu will be displayed, expecting you to type a file name with a .ZRO extension. (.ZRO files are automatically created when you upload registers from the CVU100 Terminal.

```
ENTER
File to download : (with extension)  [ CVU100.ZRO ]
Press ENTER when done
```

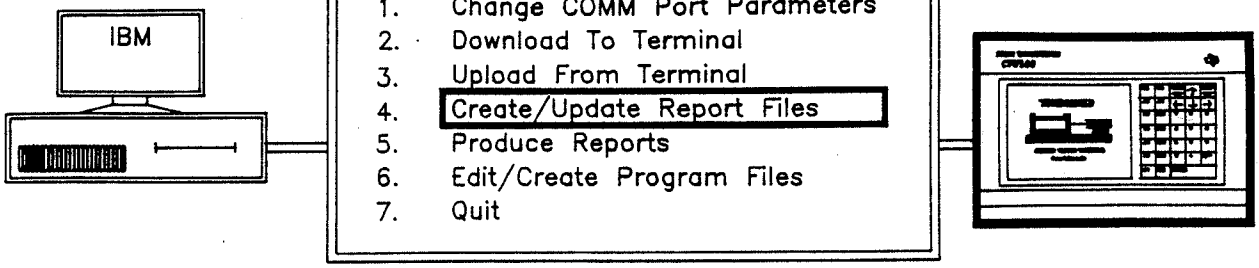
Once a file to download has been selected, the following screen will be displayed.

```
DIRECTIONS
From the (Terminal) BACKUP/RESTORE menu select <RESTORE>
Then press any key (ON IBM) to start downloading
```

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7.0 Create/Update Report Files.

USE : ↑ / ↓ and <RETURN> or number to make selection



DESCRIPTION

This option enables you to:
Build or update a data base where programs will be line numbered and registers will be cross-referenced to the specific program lines in which they appear.

The file containing the registers will have the extension .RGS
The file containing the numbered lines will have the extension .LNB

ONCE OPTION #4 IS SELECTED, THE FOLLOWING MENU WILL APPEAR

USE : ← → INSERT DELETE BACKSPACE to edit Press <ENTER> when done

ENTER

File to line number : (with no extension) [CVU100]

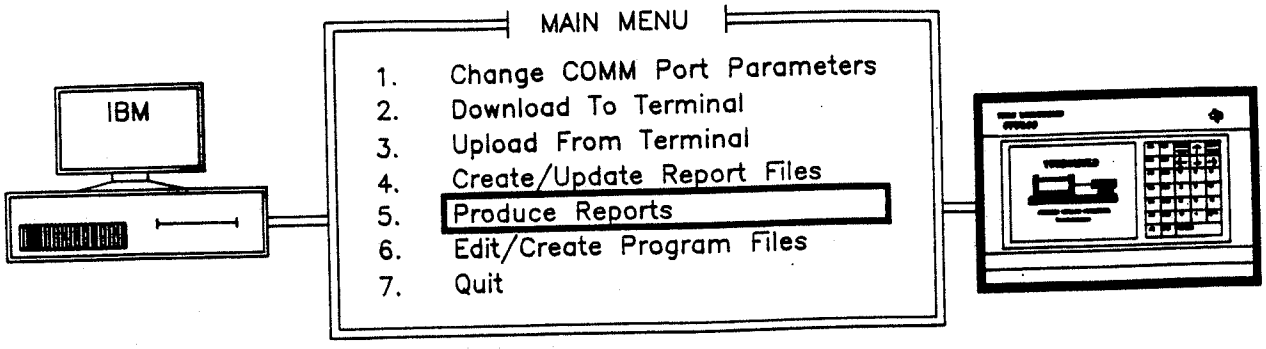
Press <ENTER> when done

F10 = Main Menu

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8.0 Reports

USE : ↑ / ↓ and <RETURN> or number to make selection



DESCRIPTION

This option enables you to :
Print a report to the screen or to the printer.
Print a program or all programs.
Print a register or all registers.
Assign a project name to the report
for easy reference.

ONCE OPTION #5 IS SELECTED, THE FOLLOWING SCREEN WILL APPEAR

USE : → ← INSERT DELETE BACKSPACE to EDIT. Press <RETURN> when done

ENTER PROJECT DESCRIPTION

[CVU100 UTILITIES]

ESC leaves default

F10 = Main Menu

ONCE A PROJECT DESCRIPTION IS ENTERED THE FOLLOWING SCREEN WILL APPEAR

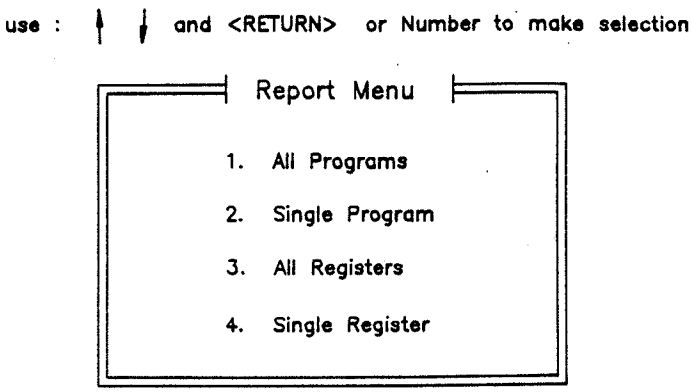
USE: ↑ ↓ and <RETURN> or number to make selection

PRINT SELECT

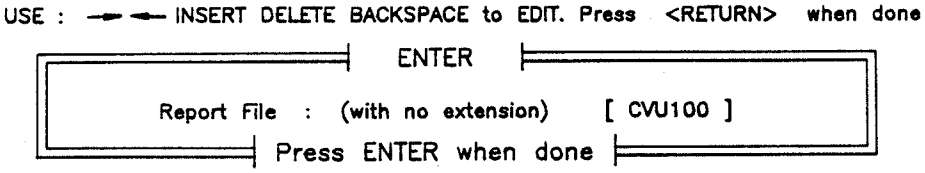
1. Display on screen
2. Output to printer
3. Main Menu

REPORT PROCEDURES, CONTINUED ON NEXT PAGE.

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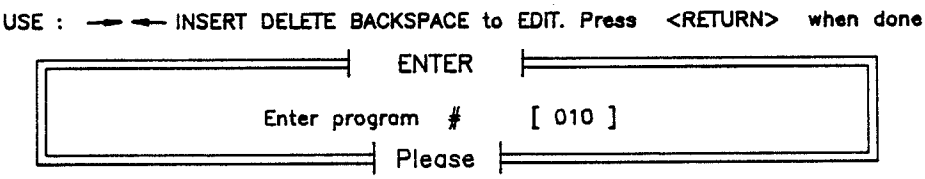


ONCE SELECTED, THE FOLLOWING SCREEN WILL APPEAR



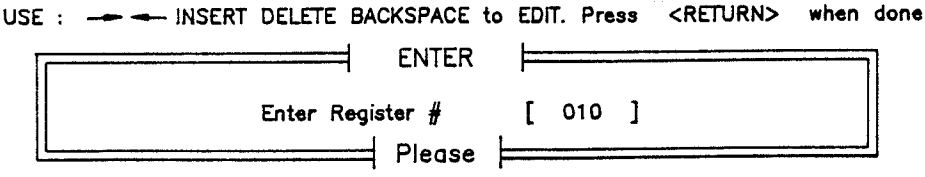
If 1. all Programs or 3. all Registers were selected, it will start printing or displaying the report.
If 2. single Program or 4. single Register were selected, the following screens will appear

If single Program was selected the following menu will appear



F10 = Main Menu

If single Register was selected this menu will appear

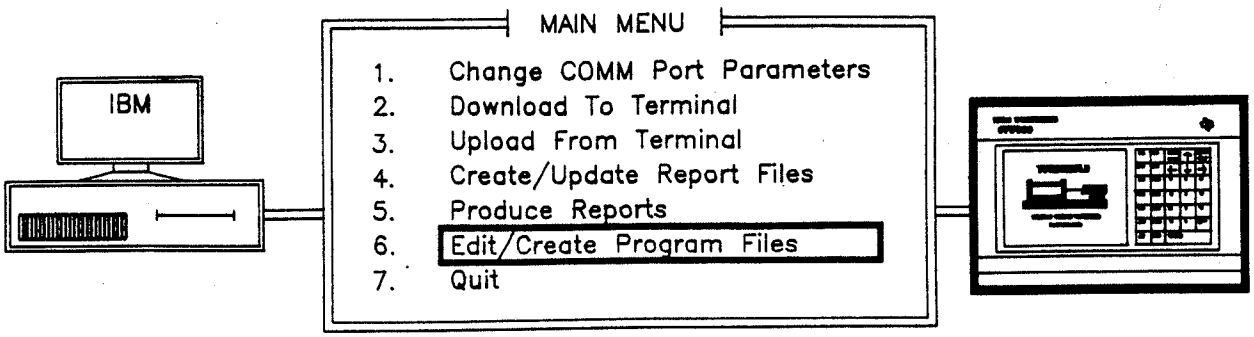


F10 = Main Menu

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9.0 Edit

USE : ↑ / ↓ and <RETURN> or number to make selection



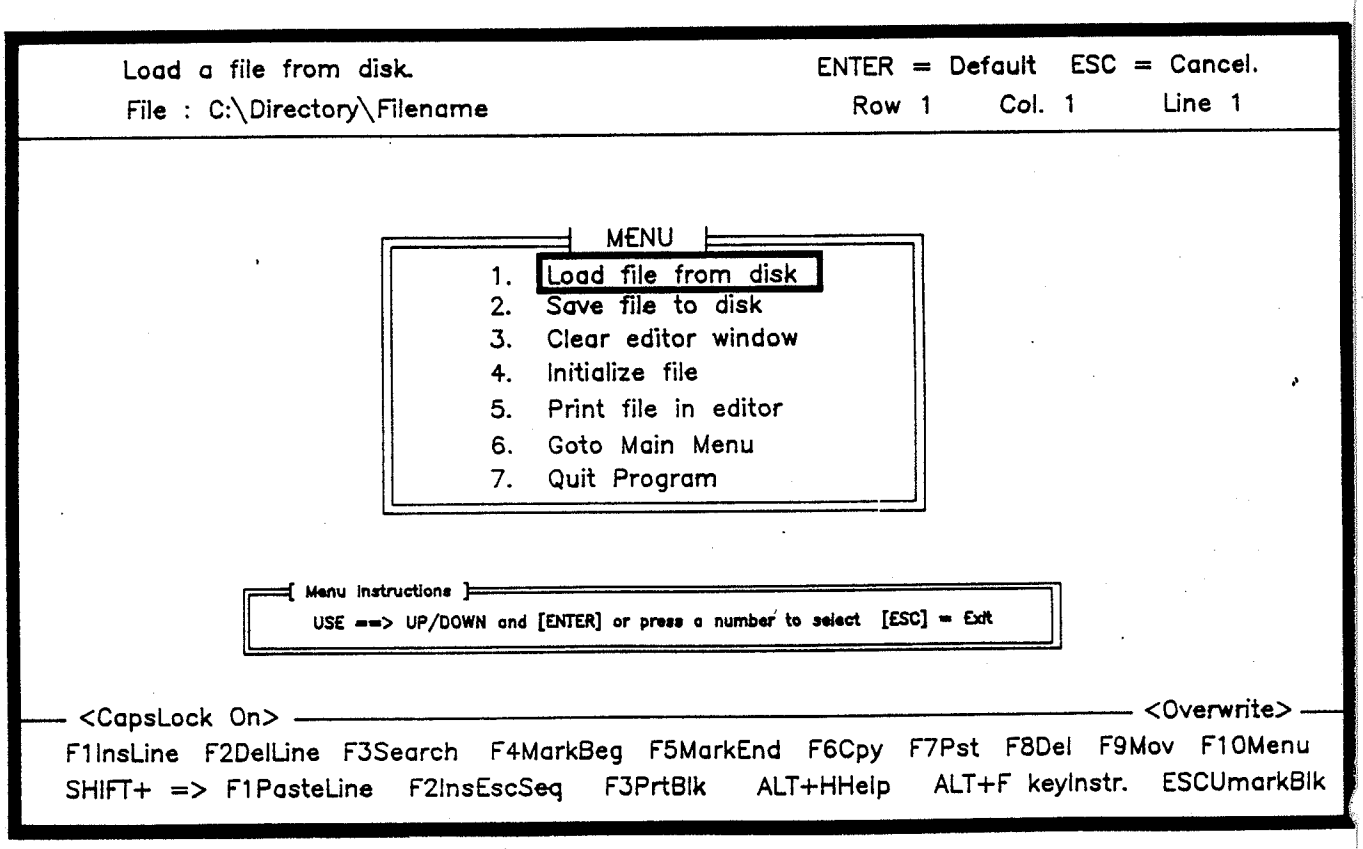
DESCRIPTION

This option loads a text editor with which you can:

Load, edit, and save an existing file.
Create, edit and save a new file.

Then you can download the file to the terminal.

ONCE OPTION #6 IS SELECTED, THE FOLLOWING MENU WILL BE DISPLAYED



EDIT PROCEDURES, continued on next page.

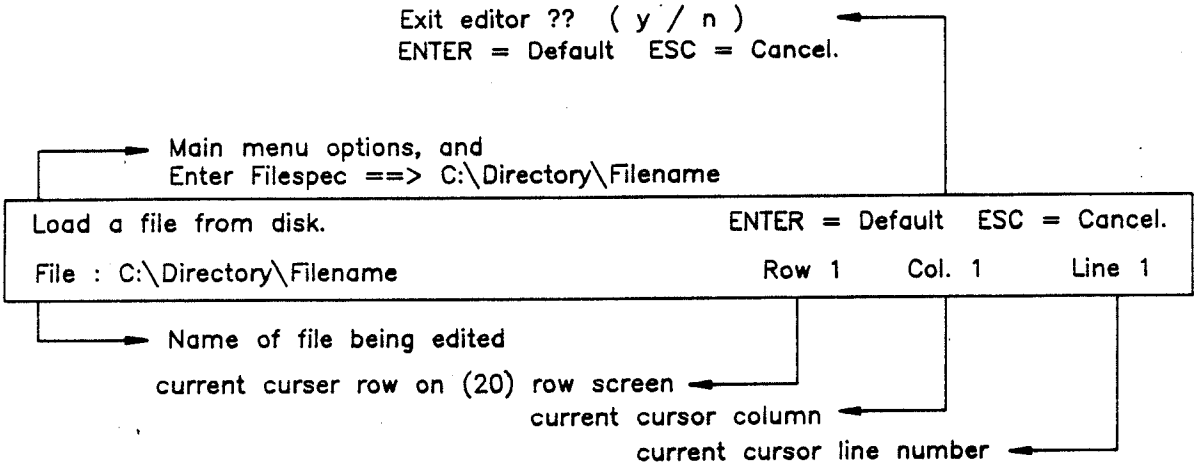
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Main Menu Deecriptions

```
MENU
1. Load file from disk
2. Save file to disk
3. Clear editor window
4. Initialize file
5. Print file in editor
6. Goto Main Menu
7. Quit Program
```

= Loads a file from disk into the editor window.
= Save file in the editor window to disk.
= will erase file from memory.
= Creates a new file with program numbers & escape sequences.
= Print file in the editor window to the printer.
= Go to Main Menu.
= Return to Dos command level.

The Figure of the status line below identifies each element with call-outs.




```
Load a file from disk.                    ENTER = Default  ESC = Cancel.
File : C:\Directory\Filename                Row 1    Col. 1     Line 1
```

CVU100 Editor Status Line

EDIT PROCEDURES, continued on next page.

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Entering and Editing Text

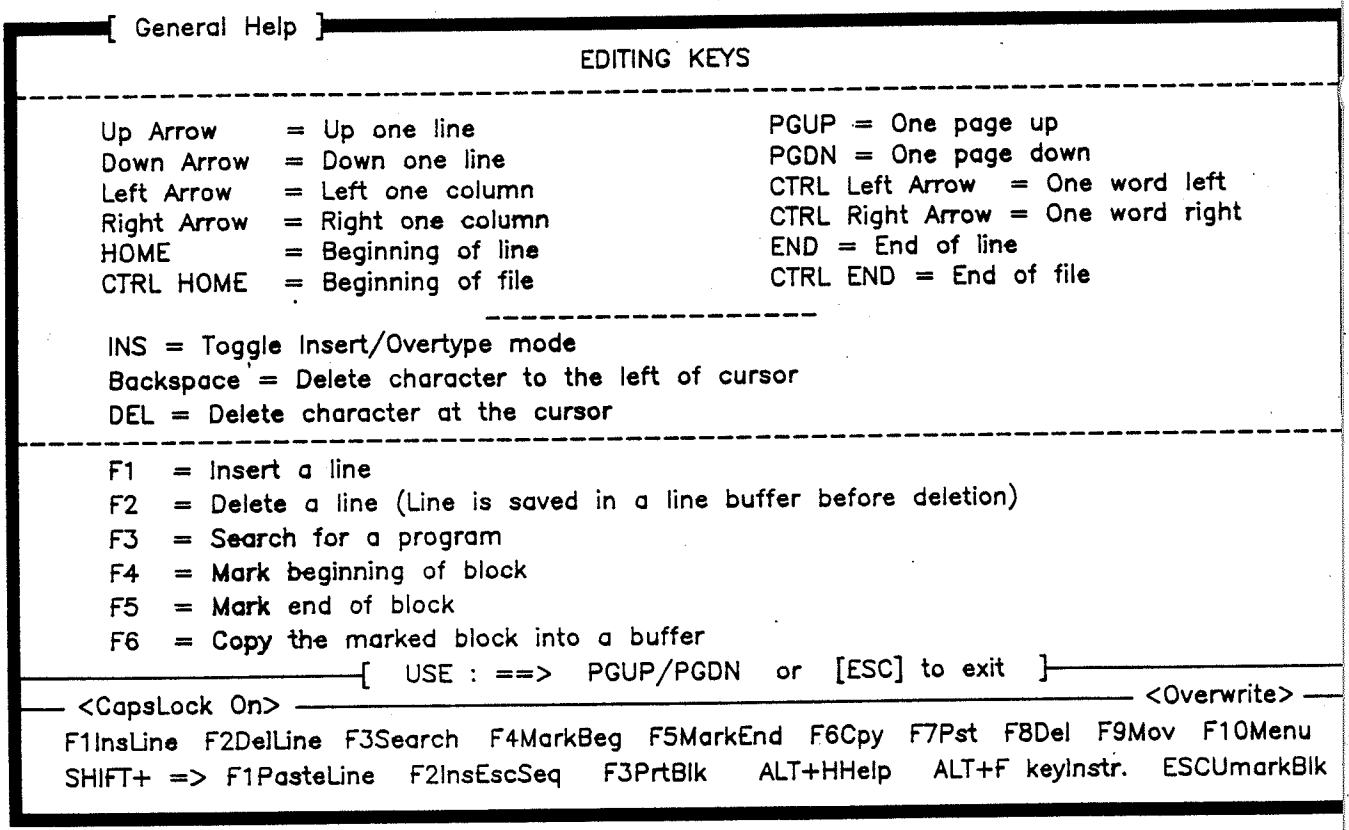
With your cursor appropriately positioned in the text file, you can begin entering text by typing in characters. Typically, any text you enter will overwrite the text above the curser (Insert off).

Press the INSERT key to toggle Insert on and off. With Insert ON, any text you enter is inserted to the left of the curser, and all characters to the right of the curser are moved to the right.

Press ENTER to end a line of text. The curser moves to the beginning of the next line.

Help screen page 1. (ALT+H - HELP)

When you are editing text, the cursor points to where you will make changes, deletions, or insertions. Use the following commands to move the curser, insert or delete text, or to mark and manipulate blocks of text.



EDIT PROCEDURES, continued on next page.

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Help screen page 2. (ALT+H - HELP)

```
[ General Help ]
   F7  = Paste the copied block at the cursor position
   F8  = Delete the marked block (Block is saved in a buffer first)
   F9  = Move the marked block
   F10 = Activate menu
   ESC = Unmark Block
   SHFT F1 = Paste a line that was deleted
   SHFT F2 = Insert the escape sequence required in a program line
   SHFT F3 = Print block
   ALT F1  = Help for inserting a line
   ALT F2  = Help for deleting a line
   ALT F3  = Help for searching for a program
   ALT F4  = Help for marking the beginning of a block
   ALT F5  = Help for marking the end of a block
   ALT F6  = Help for copying a marked block
   ALT F7  = Help for pasting a copied block
   ALT F8  = Help for deleting a marked block
   ALT F9  = Help for moving a marked block

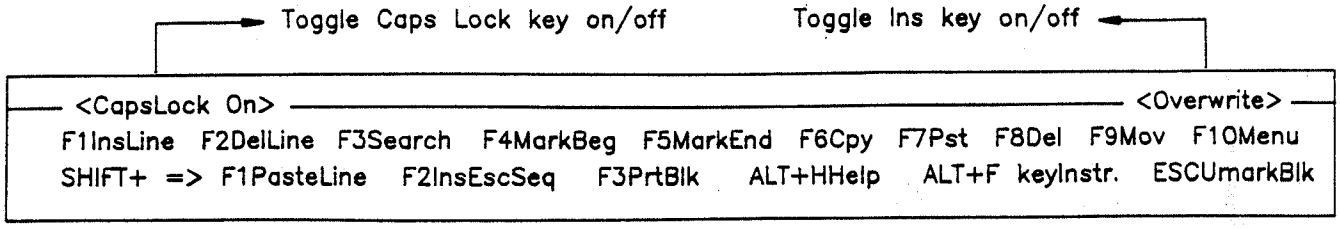
          < Number of lines available depends on computer memory. >
               < Each line can be up to 80 characters long. >
                        <<<<< END >>>>>
[ USE : ==>  PGUP/PGDN  or  [ESC] to exit ]
<CapsLock On>                                              <Overwrite>
F1InsLine F2DelLine F3Search F4MarkBeg F5MarkEnd F6Cpy F7Pst F8Del F9Mov F10Menu
SHIFT+ => F1PasteLine  F2InsEscSeq  F3PrtBlk  ALT+HHelp  ALT+F keyInstr.  ESCUmarkBlk
```

EDIT PROCEDURES, continued on next page.

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Function Keys (F1 - F10)

Use the following commands to insert or delete text, or to mark and manipulate blocks of text.



F1 F1InsLine = INSERT LINE
Move cursor to where you want to insert the line and press F1.

F2 F2DelLine = DELETE LINE
Move the cursor to the line you want to delete and press F2.
The line will be saved in a buffer, and can be pasted anywhere.
The line will remain in the buffer until another line is deleted.

F3 F3Search = SEARCH FOR STRING
You will be asked to enter string (program number) for which to search.
When string is found, the line containing it will be the first
line printed on the screen.

F4 F4MarkBeg = MARK BLOCK START
Move cursor to the first line of the block and press F4.

F5 F5MarkEnd = MARK BLOCK END
Move cursor to the last line of the block and press F5.

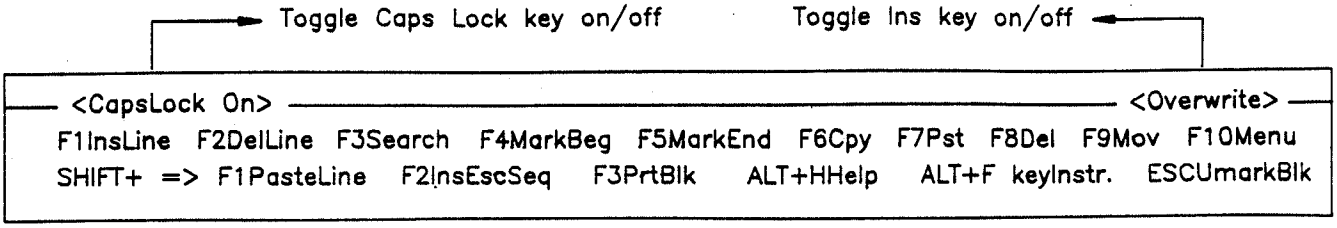
F6 F6Cpy = COPY A BLOCK
Mark the block you want to copy and then press F6.
The block will be saved in a buffer until you use copy or
delete block again, It can be pasted into another file after
it is loaded into the editor.

F7 F7Pst = PASTE A BLOCK
Move cursor to where you want to paste the block and press F7.

EDIT PROCEDURES, continued on next page.

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Function Keys (F1 - F10) , continued



F8 — F8Del = DELETE BLOCK
Mark the block you want to delete and press F8.
The block will be saved in a buffer until you use copy or delete block again.
It can be pasted anywhere and as many times as needed.

F9 — F9Mov = MOVE BLOCK
Move cursor to where you want to move the block and press F9.

F10 — F10Menu = CVU100 EDITOR MAIN MENU

ESC — ESCUmarkBlk = Unmark Block

Function Keys (SHIFT F1 - F3)

SHIFT F1 — F1PasteLine = PASTE LINE
After a line has been deleted with (F2DelLine), the line will be saved in a buffer until you use delete line again. This line can be pasted anywhere and as many times as needed by pressing SHIFT F1.

SHIFT F2 — F2InsEscSeq = INSERT ESCAPE SEQUENCES
Insert escape sequence with program number by pressing SHIFT F2.

SHIFT F3 — F3PrtBlk = PRINT BLOCK
Mark the block you want to print and then press SHIFT F3.
Connect to a printer and the block will be printed.

Help Keys

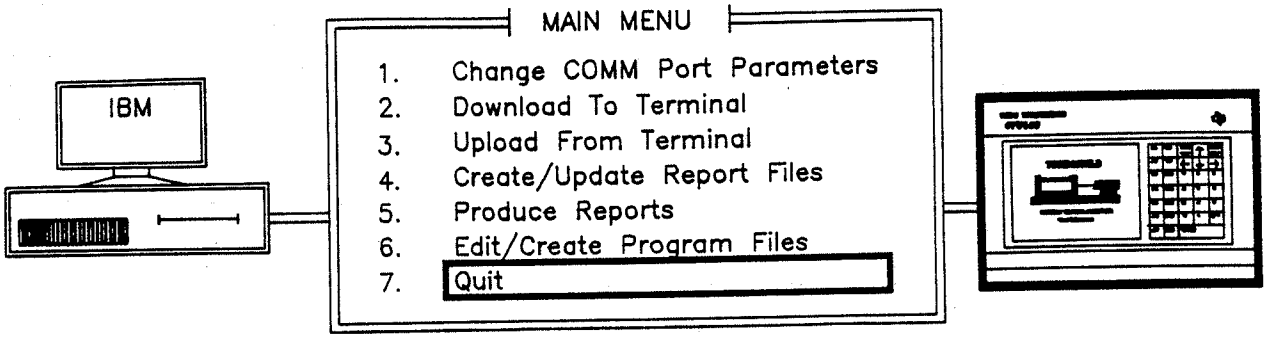
ALT H — ALT+H = HELP SCREEN
Displays editing help screen.

ALT F# — ALT+FUNCTION KEY = KEY INSTRUCTIONS
To get the help screen for a particular function press Alt + function # key.

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10.0 Exit CVU100 Organizer

USE : ↑ / ↓ and <RETURN> or number to make selection



DESCRIPTION

EXIT THIS PROGRAM

ONCE EXIT IS SELECTED, THE FOLLOWING MENU WILL APPEAR

CAUTION

Are you sure ???

Press Y or N Please

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