Centurion Simulator: https://eciv.net/meisaka/cen/cen.html

To use the General Ledger application, you need CENTOS\_GL.IMG provided by Nakazoto. Make a working copy so you can always fall back to the original.

Get your simulated Centurion set up and started:

* Go to the simulator and drag the working copy of the disk image to it.
  + This should make the disk image appear in the "Fixed" location in the DSK II / Hawk Emu frame.
* Make sure 100k is selected at the top of the page. If it's not yellow, click it.
* Make sure R/F is yellow in the Front Panel Display frame. If not, click it.
* Click OPSYS. It will NOT stay highlighted/yellow. It shouldn't hurt to click more than once if you're unsure.
* Click RUN/STOP at the top of the page. This boots the simulator.
* You should now see a "D=" prompt. Click the CRT0 window and type "H1" (without the quotes). The simulator will boot.
* You will see the following text:

WELCOME TO THE CENTURION!

DOS 7.1 - E

MAX DISK# (M)= 1, SYSTEM DISK (S)= 1

* Press Enter. You will be prompted to enter a new date in MMDDYY format, and then a new time in 24-hour HHMMSS format.
* "CRT0 READY" will display.
* Your system is up and running. You can execute ".STA" for system status.

Open the Centurion General Ledger application by executing "GL.GLMENU"

The instructions here are for a very basic demo that doesn't actually *do* anything.

Set up a basic General Ledger

* The application will prompt "ENTER KEY NUMBER FOR FILE-SET".
  + Think of the key number as a customer number.
  + You can enter any reasonable number here. For demo purposes we've been using 100.
* The application will prompt "ENTER DISK NUMBER FOR FILE-SET".
* The disk number must match a volume listed in the output of .STA.
  + If you're using only the CENTOS\_GL.IMG image, you must use 1 as this is the only disk volume you have available.
  + Enter your disk number and press Enter.
* The application's main menu will appear with a header of "CENTURION GENERAL LEDGER APPLICATION".
* Establish your file set
  + You need to build files before you can do much more of any use. Enter option 1 to establish your file set for the Key Number.
  + At the "ENTER APPROXIMATE NUMBER OF ACCOUNTS" prompt, we'll choose a reasonable number like 1000. Type 1000 and press Enter. The application will take a moment to build files on the disk image.
  + The application will next prompt "DO YOU PLAN TO USE BUDGET COMPARISONS? (Y/N)". For simplicity, we'll answer N here.
  + The next prompt is "DO YOU PLAN TO USE SUBACCOUNTS? (Y/N)". Again, for simplicity, answer N here.
  + The application returns you to the main menu.
* Set up some basic accounts.
  + Enter 2 to select "MASTER FILE SERVICE" from the main menu.
  + Enter option 1 to select "CHART OF ACCOUNTS MASTER FILE SERVICE".
  + At the "ENTER USER NAME" prompt, you can enter any reasonable username here. The number of @ signs indicates the maximum length for your username.
  + At the "ENTER ACCOUNTANT NUMBER" prompt you can enter any reasonable number. The 3 # signs indicate the maximum length for your accountant number.
  + For simplicity, answer N to "ARE YOU USING BRANCH NUMBERS (Y/N)".
  + Enter 4 at the "ENTER NUMBER OF DIGITS IN MAJOR ACCOUNT NUMBERS (1-6)" prompt.
  + Enter 0 at the "ENTER NUMBER OF DIGITS IN MINOR ACCOUNT NUMBERS (0-3)" prompt.
  + Enter 0 at the "ENTER NUMBER OF DIGITS IN SUBACCOUNT NUMBERS (0-9)" prompt.
  + Enter the current month in MMYY format at the prompt.
  + Enter 12 at the "ENDING MONTH OF USERS FISCAL YEAR (MO)" prompt.
  + Enter Y at the "DO YOU WANT TO RETAIN DETAILS FOR THE YEAR? (Y/N)" prompt.
  + Enter 0 at the "ENTER CODE FOR PAYROLL POSTING MODULE (0/1)" (I assume this will disable payroll.)
  + Enter Y at the "DO YOU WANT ALL NEGATIVES TO BE ENCLOSED IN PARENTHESES? (Y/N)" prompt.
  + Enter 9999 at the "ENTER LAST ACCOUNT NUMBER ON BALANCE SHEET" "MAJOR:" prompt.
  + Enter 100 at the "ENTER CURRENT EARNINGS ACCOUNT" "MAJOR:" prompt.
  + Enter 9900 at the "ENTER RETAINED EARNINGS ACCOUNT" "MAJOR:" prompt.
  + Several prompts that behave identically appear next. The prompts appear with a series of @ signs that indicate the maximum number of characters that can be entered. Enter some text at each prompt.
    - "ENTER BALANCE SHEET DESCRIPTION" (I used REKKANORYO NETWORKS BALANCE SHEET)
    - "ENTER INCOME STATEMENT DESCRIPTION" (I used REKKANORYO NETWORKS INCOME STATEMENT)
    - "ENTER HEADER 1 DESCRIPTION" (I used REKKANORYO NETWORKS HEADER 1)
    - "ENTER HEADER 2 DESCRIPTION" (I used REKKANORYO NETWORKS HEADER 2)
    - "ENTER DISCLAIMER DESCRIPTION" (I used REKKANORYO NETWORKS DISCLAIMER DESCRIPTION)
    - "ENTER SUBACCOUNT DESCRIPTION" (I used NO SUBACCOUNTS USED)
  + The application now returns to the MASTER FILE MAINTENANCE screen.
  + Optionally turn on the dollar sign flag to enable display dollar signs
    - Enter 1 to select CHANGE FIELD ON THIS PAGE
    - Enter 13 at the "ENTER FIELD NUMBER" prompt.
    - The "PRINT DOLLAR SIGNS AND UNDERLINES ON CHANGE IN FINANCIAL POSITION? (Y/N)" prompt appears. Enter Y to enable.
    - Field 13 changes its displayed value from 0 to 1.
    - Enter 99 to return to the previous screen.
  + Set the Inventory accounts
    - Enter 1 to select CHANGE FIELDS ON THIS PAGE
    - Enter 18 to select INV NET CHANGE at the ENTER FIELD NUMBER prompt
    - Enter 850 at the MAJOR prompt. This will set account number 850 as the Inventory Net Change account.
    - Enter 19 at the ENTER FIELD NUMBER prompt.
    - Enter 800 at the MAJOR prompt. This will set account number 800 as the Beginning Inventory account.
    - Enter 20 at the ENTER FIELD NUMBER prompt.
    - Enter 890 at the MAJOR prompt. This will set account number 890 as the Ending Inventory account.
    - Enter 99 at the ENTER FIELD NUMBER prompt to return to the previous menu.
  + Create the GL accounts.
    - Note: If you try to proceed to post entries to any of these accounts without performing the following steps, the transaction entry module will complain that the accounts don't exist, even though they were configured in the Master File Maintenance menu. It seems that the accounts must be created even when they're already referenced. (In retrospect, this makes sense. The MASTER FILE MAINTENANCE menu is really just a parameters screen, and you would need to actually create the accounts to back up the configured parameters.)
    - Enter 4 to select SPECIFIC ACCOUNTS from the GENERAL LEDGER MASTER FILE MAINTENANCE menu.
    - Last account on the balance sheet:
      * Enter 9999 at the ENTER ACCOUNT NUMBER MAJOR: prompt.
      * Enter Y at the IS THIS A NEW ACCOUNT? (Y/N) prompt.
      * Enter LAST ACCOUNT ON BALANCE SHEET at the ENTER DESCRIPTION prompt
      * Enter A at the ENTER TYPE OF ACCOUNT prompt. (I am assuming this is a generic "Asset" type.)
      * Enter N at the SCHEDULED? (Y/N) prompt.
      * Enter N at the CHANGE? (Y/N) prompt.
    - Current Earnings account:
      * Enter 100 at the ENTER ACCOUNT NUMBER MAJOR: prompt.
      * Enter Y at the IS THIS A NEW ACCOUNT? (Y/N) prompt.
      * Enter CURRENT EARNINGS at the ENTER DESCRIPTION prompt.
      * Enter I at the ENTER TYPE OF ACCOUNT prompt. (I am assuming this is an "income" type.)
      * Enter Y at the PRINT ACCOUNT ON FINANCIAL STATEMENTS? (Y/N) prompt.
      * Enter A at the ENTER BALANCE STATEMENT COLUMN FOR AMOUNT prompt. (I don't know what this really does.)
      * Enter 1 at the ENTER SOURCE & APPLICATION CATEGORY prompt. (I don't know what this does.)
      * Enter N at the SCHEDULED? (Y/N) prompt.
      * Enter 1 at the ENTER POSTING STATUS prompt. (I am assuming this is a credit status.)
      * Enter N at the CHANGE? (Y/N) prompt.
    - Retained Earnings account:
      * Enter 9900 at the ENTER ACCOUNT NUMBER MAJOR: prompt.
      * Enter Y at the IS THIS A NEW ACCOUNT? (Y/N) prompt.
      * Enter RETAINED EARNINGS at the ENTER DESCRIPTION prompt.
      * Enter I at the ENTER TYPE OF ACCOUNT prompt. (Again, I'm assuming this is income.)
      * Enter Y at the PRINT ACCOUNT ON FINANCIAL STATEMENTS? (Y/N) prompt.
      * Enter A at the ENTER BALANCE STATEMENT COLUMN FOR AMOUNT prompt. (I don't know what this really does.)
      * Enter 1 at the ENTER SOURCE & APPLICATION CATEGORY prompt. (I don't know what this does.)
      * Enter N at the SCHEDULED? (Y/N) prompt.
      * Enter 1 at the ENTER POSTING STATUS prompt. (I am assuming this is a credit status.)
      * Enter N at the CHANGE? (Y/N) prompt.
    - Beginning Inventory account:
      * Enter 800 at the ENTER ACCOUNT NUMBER MAJOR: prompt.
      * Enter Y at the IS THIS A NEW ACCOUNT? (Y/N) prompt.
      * Enter BEGINNING INVENTORY at the ENTER DESCRIPTION prompt.
      * Enter A at the ENTER TYPE OF ACCOUNT prompt.
      * Enter N at the SCHEDULED? (Y/N) prompt.
      * Enter N at the CHANGE? (Y/N) prompt.
    - Ending Inventory account:
      * Enter 890 at the ENTER ACCOUNT NUMBER MAJOR: prompt.
      * Enter Y at the IS THIS A NEW ACCOUNT (Y/N) prompt.
      * Enter ENDING INVENTORY at the ENTER DESCRIPTION prompt.
      * Enter A at the ENTER TYPE OF ACCOUNT prompt.
      * Enter N at the SCHEDULED? (Y/N) prompt.
      * Enter N at the CHANGE? (Y/N) prompt.
    - Inventory Change account:
      * Enter 850 at the ENTER ACCOUNT NUMBER MAJOR: prompt.
      * Enter Y at the IS THIS A NEW ACCOUNT (Y/N) prompt.
      * Enter INVENTORY CHANGE at the ENTER DESCRIPTION prompt.
      * Enter E at the ENTER TYPE OF ACCOUNT prompt.
      * Enter B at the ENTER BALANCE STATEMENT COLUMN FOR AMOUNT prompt (No clue what this does.)
      * Enter 2 at the ENTER SOURCE & APPLICATION CATEGORY prompt (no clue what this does.)
      * Enter N at the SCHEDULED? (Y/N) prompt.
      * Enter 2 at the ENTER POSTING STATUS prompt. (I'm assuming this is a debit status.)
      * Enter N at the CHANGE? (Y/N) prompt.
  + Press Enter at the ENTER ACCOUNT NUMBER MAJOR: prompt to return to the menu.
* Test the Chart of Accounts
  + At the CENTURION GENERAL LEDGER APPLICATION menu, enter 4 to go to the REPORTS menu.
  + Enter 1 for CHART OF ACCOUNTS at the GENERAL LEDGER APPLICATION REPORTS menu.
  + Enter CRT0 at the ENTER PRINT-DEVICE OPTION prompt.
  + Press Enter at the ENTER PRINT-DEVICE OPTION prompt.
  + Enter a date in MM/DD/YY format.
  + Enter 0 at the ENTER OPTION: prompt to print all accounts.
  + At the READY PRINTER - PRESS NEWLINE prompt, press Enter.
  + The six accounts we've created should display.
  + Press Enter at the END OF FILE - PRESS NEWLINE WHEN THROUGH prompt.
* Enter some test transactions
  + From the main CENTURION GENERAL LEDGER APPLICATION menu, enter 3 to select PROCESSING CYCLE.
  + From the GENERAL LEDGER APPLICATION PROCESSING CYCLE menu, enter 1 to select GENERAL LEDGER TRANSACTION ENTRY.
  + The top line of CRT0 should change to "GL531 (TRANSACTION ENTRY) 12/29/81" and the next line should be the username you chose above. A "JOURNAL NUMBER" prompt should appear. Enter 01.
  + Enter a month and year in MMYY format as shown. This should be in the same year you used above (i.e. this year).
  + At the ENTER BEGINNING BALANCE (NEWLINE IF 0) prompt, enter 1000000.00 (one million).
  + Enter a credit:
    - At the MAJOR: prompt, enter 850.
    - At the REF: prompt, enter 123456\
    - At the DATE: prompt, enter a date in the month you chose.
    - At the AMOUNT: prompt, enter 500000.00 (five hundred thousand)
    - At the DESC: prompt, enter some text that fits within the width of @ signs displayed.
    - The balance should go up to 1500000.00.
  + Enter a debit:
    - At the MAJOR: prompt, enter 850.
    - At the REF: prompt, enter 234567
    - At the DATE: prompt, enter a date in the month you chose.
    - At the AMOUNT: prompt, enter -234000.00.00 (negative two hundred thirty-four thousand)
    - At the DESC: prompt, enter some text that fits within the width of @ signs displayed.
    - The balance should drop to 1266000.00.
  + Enter another debit:
    - At the MAJOR: prompt, enter 850.
    - At the REF: prompt, enter 345678.
    - At the DATE: prompt, enter a date in the month you chose.
    - At the AMOUNT: prompt, enter -800000.00 (eight hundred thousand)
    - At the DESC: prompt, enter some text that fits within the width of @ signs displayed.
    - The balance should drop to 466000.00.
  + Enter another debit:
    - At the MAJOR: prompt, enter 850.
    - At the REF: prompt, enter 456789.
    - At the DATE: prompt, enter a date in the month you chose.
    - At the AMOUNT: prompt, enter -466000.00
    - At the DESC: prompt, enter some text that fits within the width of @ signs displayed.
    - The balance should drop to 0.00.
  + Enter a credit to balance the journal:
    - At the MAJOR: prompt, enter 850.
    - At the REF: prompt, enter 123456
    - At the DATE: prompt, enter a date in the month you chose.
    - At the AMOUNT: prompt, enter 1000000.00 (one million)
    - At the DESC: prompt, enter some text that fits within the width of @ signs displayed.
    - The balance should go up to 1000000.00.
  + Post the transactions
    - Press Enter at the MAJOR: prompt to end transaction entry.
    - Press Enter at the JOURNAL NUMBER prompt to finish.
    - Enter Y a the DO YOU WANT TO RUN AUDIT NOW? (Y/N) prompt.
    - At the ENTER PRINT-DEVICE OPTION, hit Enter.
    - Enter Y at the DO YOU NEED TO SORT TRANSACTION FILE INTO JOURNAL NUMBER ORDER? (Y/N) prompt.
    - At the ENTER OPTION prompt, enter either 1 or 2. Which doesn't seem to matter.
    - Enter a date in MM/DD/YY format at the ENTER REPORT DATE prompt.
    - Enter a date in MMYY format in at the prompt. I used the same date it showed for old current.
    - Enter N at the DO YOU WISH TO PRINT ONLY THOSE JOURNALS WITHIN POSTING PERIOD? Prompt.
    - A report displays. At the DO YOU WANT TO POST DETAILS TO ACCOUNTS NOW? (Y/N) prompt, enter Y.
    - Press Enter at the ENTER PRINT-DEVICE OPTION prompt.
    - At the ENTER POSTING OPTION: prompt, enter 0 for STANDARD.
* Print some reports:
  + From the main CENTURION GENERAL LEDGER APPLICATION menu, enter 4 for REPORTS.
  + Chart of Accounts report:
    - Enter 1 for CHART OF ACCOUNTS
    - Enter either 0 or 6 for the print device (0 is a parallel printer, 6 is serial, doesn't matter which.)
    - Enter a reasonable date for the report date.
    - Enter 0 to print all accounts.
    - At the READY PRINTER prompt, press Enter. The report prints on the emulator's print window.
  + Calculation Accounts report:
    - Enter 2 for PRINT CALCULATION ACCOUNTS
    - Enter either 0 or 6 for the print device.
    - Enter a reasonable date for the report date.
    - A message should appear stating THIS FILE NOT INITIALIZED FOR H ACCOUNTS and you will be returned to the reports menu. (We did not create any H type accounts yet.)
  + General Ledger report:
    - Enter 3 for GENERAL LEDGER
    - Enter either 0 or 6 for the print device.
    - Enter 2 for the paper option (this selects 80 column vs 132 column).
    - Enter a reasonable date at the ENTER DATE FOR GENERAL LEDGER prompt.
    - Enter Y at the DO YOU WANT TO PRINT ALL ACCOUNTS? (Y/N) prompt.
    - Enter N at the DO YOU WANT TO PRINT DETAILS FOR THE CURRENT MONTH ONLY? (Y/N) prompt.
    - Enter a reasonable date for the ENTER BEGINNING MONTH FOR PRIOR LEDGER (MMYY) prompt.
    - The report prints to the emulator's print window and you return to the reports menu.
  + Financial Statements:
    - Enter 4 for FINANCIAL STATEMENTS
    - Enter 0 or 6 for the print device.
    - Enter Y at the DO YOU WANT TO PRINT A COVER LETTER? (Y/N) prompt.
    - Enter 100 at the WHICH KEY NUMBER'S COVER LETTER DO YOU WANT? prompt.
    - A message will appear, THAT COVER LETTER IS NOT ON FILE
    - Enter N at the DO YOU WANT TO PRINT A COVER LETTER? (Y/N) prompt.
    - Enter a reasonable date at the BALANCE SHEET DATE and INCOME STATEMENT DATE prompts.
    - Enter 2 at the paper option.
    - Enter any of the four displayed options. I used 0.
    - Enter 0 to select NUMBER ALL PAGES CONSECUTIVELY
    - Enter 0 to select CURRENT POSTED BALANCES
    - Enter Y at the DO YOU WANT TO PRINT INACTIVE ACCOUNTS? (Y/N) prompt.
    - Enter N at the ARE YOU USING A SPECIAL PRINTER TAPE? (Y/N) prompt.
    - The report prints to the emulator's print window and you return to the reports menu.
  + Financial Comparisons:
    - Enter 5 for FINANCIAL COMPARISONS
    - Enter 0 or 6 for the print device.
    - Enter Y at the DO YOU WANT TO PRINT THE DOUBLE FINANCIAL COMPARISON REPORT? (Y/N) prompt.
    - Enter N at the DO YOU WANT TO RUN ANOTHER FINANCIAL COMPARISON REPORT WHEN DONE? (Y/N) prompt.
    - Enter 0 to select STANDARD HEADING DATE
    - Enter a reasonable date for the report date.
    - Enter 0 to select STANDARD FORMAT
    - Enter 0 to select ALL PAGES NUMBERED CONSECUTIVELY
    - Enter Y at the DO YOU WANT TO PRINT INACTIVE ACCOUNTS? (Y/N) prompt.
    - Enter 2 to select REPORT FORMAT THIS YEAR / LAST YEAR
    - Enter 1 to select PRINT VARIANCE AMOUNT
    - Enter 0 to select MONTH & YEAR
    - The report prints to the emulator's print window and you return to the reports menu.
  + Change in Financial Position:
    - Enter 6 to select CHANGE IN FINANCIAL POSITION
    - Enter 0 or 6 for the print device.
    - Enter 1 to select PRINT FINANCIAL CHANGE WORKSHEET AND STATEMENT
    - Enter a reasonable date for the report date.
    - Enter Y at the DO YOU WISH TO PRINT PAGE NUMBERS? (Y/N) prompt.
    - Enter 2 for the paper option.
    - Enter 2 to select LAST YEAR
    - Enter 1 to select PRINT ALL ACCOUNTS
    - Enter Y at the DO YOU WANT TO PRINT ALL INCOME & BALANCE SHEET ACCOUNTS? (Y/N) prompt.
    - The report prints to the emulator's print window.
    - Enter 2 for the paper option.
    - The report prints to the emulator's print window and you return to the reports menu.
  + Trial Balance report:
    - Enter 7 to select TRIAL BALANCE
    - Enter 0 or 6 for the print device.
    - Enter 1 for CURRENT POSTED + UNPOSTED
    - Enter a reasonable date for the report date.
    - END OF TRIAL BALANCE appears and you return to the reports menu.
  + Enter 99 to return to the main menu.
* Enter 99 to exit and return to OPSYS.

| **Centurion General Ledger Account Types** | |
| --- | --- |
| **Type Code** | **Type (assumed, unless indicated)** |
| A | Asset |
| B | ? - Asks DO YOU WANT ACCOUNT DESCRIPTIONS CENTERED? |
| C | ? - Asks DO YOU WANT ACCOUNT DESCRIPTIONS CENTERED? |
| D | ? - Asks for Balance Statement Column, Source & Application category, and a print option. |
| E | Expense |
| F | ? - Asks for Balance Statement Column, Source & Application Category, and Posting Status |
| G | ? - Asks for Total Level and Column for Balance Sheet |
| H | Calculation (determined from Calculation Accounts report) |
| I | Income |
| J - K | ? - Gives “OPTION NOT APPLICABLE” message. Exits back to main GLMENU after newline. |
| L | ? - I would assume Liability, but it doesn’t *do* anything. When entering this code, the Account Type prompt continually reappears without advancing. |
| M-Z | These types are invalid and generate an error message when used. |

**OTHER NOTES:**

You cannot change the Inventory accounts on the GENERAL LEDGER MASTER FILE MAINTENANCE screen to H accounts. When you make this change you receive the error IMPROPER CODE ENTERED and you are reutrned to the ENTER TYPE OF ACCOUNT prompt. This may be due to option 12 on the GENERAL LEDGER MASTER FILE MAINTENANCE screen (USING H ACOUNTS) being set to 0. This observation was made using the working General Ledger established following the guide above.

In trying to make a transaction that increases current earnings or retained earnings, I had to enter two credits and a debit to make it work. I was assuming that account type I is income, and this may be accurate, but I would have expected that a simple debit and credit would have balanced out to 0 and allowed me to post. However, I was out by the amount of the debit and

had to create another credit to balance it out. This makes no sense to me. The specific entries I made were:

* Debit from 850 (-100000.00)
* Credit to 100 (100000.00)
* Credit to 850 (100000.00)

The transaction entry was not happy with the journal until I entered the second credit. After entering that credit, the journal balanced and allowed me to post the transactions to the accounts.

Sample report:

REKKANORYO

100/100 GENERAL LEDGER PAGE 1

05/07/23

BRN ACCT JNL DESCRIPTION REF DATE AMOUNT BALANCE

100 CURRENT EARNINGS .00

TOTAL FORWARD \* 100,000.00 100,000.00 \*\*

850 INVENTORY CHANGE .00

1 MARCH SHIPMENT DELIVE 123456 04/01/23 500,000.00

1 SALE TO CUSTOMER 23 O 234567 04/05/23 234,000.00-

1 SALE TO CUSTOMER 87 O 345678 04/09/23 800,000.00-

1 SALE TO CUSTOMER 99 O 456789 04/10/23 466,000.00-

1 BALANCING TRANASACTIO 987654 04/11/23 1,000,000.00

2 DEBIT INV CHG TO SHOW 123456 04/30/23 100,000.00-

2 PLUGGING VALUE TO BAL 123456 04/30/23 100,000.00

TOTAL FORWARD \* .00 .00 \*\*

9900 RETAINED EARNINGS .00

TOTAL FORWARD \* .00 .00 \*\*

G/L IN BALANCE

NUMBER OF ACTIVE ACCOUNTS 3

NUMBER OF TRANSACTIONS 7

TOTAL 10