# OLNET Program Mode Edit Example [E]

The FEI and HIPPI tests' program modes have two options. *Program mode* is typically used to execute the OLNET test and get test results. *Edit mode* is used to write, edit, save, and load command programs. This appendix describes the use of edit mode.

The following example uses the HIPPI Program Mode menu but the example also applies to the FEI test. To select the Edit Mode menu, enter `EDIT`.

```
*** HIPPI COMMAND PROGRAM[PROGRAM MODE] ***

* STEP  1

 Channel control:
   OCTL - Output(Flags = 00000)  ICTL - Input(Flags = 00000)

 SOE - Stop on error is: TRUE      TR - HIPPI driver trace is:  FALSE
 HELP - Get HELP information.      EDIT - Select EDIT MODE.
 RT - Return to the HIPPI menu     ST - Set current step to n
 DFS - Display full status for step n

 Enter a command: EDIT <CR>
```

The Edit Mode menu is displayed. Load the canned sequence test 2 by entering `CS2`.

```
 *** HIPPI COMMAND PROGRAM[EDIT MODE] ***
* STEP  1

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: CS2 <CR>
```

The Edit Mode menu is updated as shown in the following display. To change the commands in steps 1 and 2 so that 100 words of data will be transferred, enter the following:

```
st,1
```

```
*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


  step  1 WRT(125000,ADDRESS) - Write 125000 words of ADDRESS.
  step  2 RD(125000) - Read 125000 words.
  step  3 CMPD(1,2) - Compare Write/read data in steps 1 and 2 for
                      equality.
  step  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
* STEP  5

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: st,1
```

This entry changes the current step number to 1. Note that the pointer (*) is now located next to step 1.

Enter the following command to write 100 words of address pattern:

```
wrt,100,ad
*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


* step  1 WRT(125000,ADDRESS) - Write 125000 words of ADDRESS.
  step  2 RD(125000) - Read 125000 words.
  step  3 CMPD(1,2) - Compare Write/read data in steps 1 and 2 for
                      equality.
  step  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
  STEP  5

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: wrt,100,ad
```

Note that step 1 was modified and the current step pointer (*) is now located at step 2.

Enter the following command to read 100 words:

```
rd,100
 *** HIPPI COMMAND PROGRAM[EDIT MODE] ***

  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
* STEP  2 RD(125000) - Read 125000 words.
  step  3 CMPD(1,2) - Compare Write/read data in steps 1 and 2 for
                      equality.
  step  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
  step  5

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: rd,100
```

Step 2 was modified, and the current step pointer (*) is now located at step 3. If you want to execute this test, you must return to program mode by entering either the RT or the PROG command (these commands perform identical functions).

You could have bypassed the menus by entering the following sequence of commands at the first appearance of the Edit Mode menu:

```
st,1,wrt,100,ad,rd,100
```

If you want to delete steps 3 and 4, enter the following:

```
 dels,3,4
*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
* STEP  3 CMPD(1,2) - Compare Write/read data in steps 1 and 2 for
                      equality.
  step  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
  step  5

 HELP - Get HELP information.
```

```
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: dels,3,4
```

Steps 3 and 4 have now been deleted.

To add the jump step back into the program, enter the following:

```
st,3,jbs,1,10
*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
* STEP  3

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: st,3,jbs,1,10
```

This entry sets the current step to 3 and loads the jump backward command ten times to step number 1.

To insert a command after step 2, enter the following:

```
ias,2
*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
  step  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
* STEP  5

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n
```

```
 Enter a command: ias,2
```

The IAS command turns on insert mode after step 2, and the current step pointer (*) is now at step 3. The compare data command can be reentered as follows:

```
 cmpd,1,2

       --------> INSERT MODE IS ON <---------
         PRESS <CR> WITHOUT A COMMAND TO END.

  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
* STEP  3
  step  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
  step  5

 Enter a command: cmpd,1,2
```

You can turn off insert mode by entering a carriage return without a command.

```
       --------> INSERT MODE IS ON <---------
         PRESS <CR> WITHOUT A COMMAND TO END.

  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
  step  3 CMPD(1,2) - Compare Write/read data in steps 1 and 2 for
                      equality.
* STEP  4
  step  5 JBS(1,10) - Jump backwards to step 1 - 10 times.
  step  6

 Enter a command: <CR>
```

To save this program in a file, enter the following:

```
spf

*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
  step  3 CMPD(1,2) - Compare Write/read data in steps 1 and 2 for
```

```
                        equality.
* STEP  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
  step  5

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: spf
```

Enter the file name. For this example, the file will be named `prog1`.

```
prog1
*** SAVE HIPPI PROGRAM COMMANDS ON FILE ***

 Enter the directory/filename.
 If you want to exit this routine, just enter a <CR>.

 Enter the directory/file - > prog1
```

To show how the saved program can be reloaded, delete steps 3 and 4 from the current program.

```
dels,3,4
*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
  step  3 CMPD(1,2) - Compare Write/read data in steps 1 and 2 for
                        equality.
* STEP  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
  step  5

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: dels,3,4
```

To load the saved program, enter the following:

```
lpf
*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


  step  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
* STEP  3
  step  4

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: lpf
```

Enter the name of the file in which the program commands were saved.

```
 prog1
*** LOAD HIPPI PROGRAM COMMANDS FROM A FILE ***

 Enter the directory/filename to load commands from.
 If you want to exit this routine, just enter a <CR>.

Enter the directory/file - > prog1
```

A warning message is displayed because some program commands are still defined.

Enter `yes` to load the program.

```
 *** WARNING WARNING WARNING WARNING ***

The program commands currently defined will be overwritten if you
choose to load a new sequence.  If you still want to load the new
program enter YES, otherwise enter a <CR>.

Enter a command: yes
```

To execute this program, enter `rt` or `prog` to return to the Program Mode menu.

```
*** HIPPI COMMAND PROGRAM[EDIT MODE] ***


* STEP  1 WRT(100,ADDRESS) - Write 100 words of ADDRESS.
  step  2 RD(100) - Read 100 words.
  step  3 CMPD(1,2) - Compare Write/read data in steps 1 and 2 for
                      equality.
  step  4 JBS(1,10) - Jump backwards to step 1 - 10 times.
  step  5
  step  6

 HELP - Get HELP information.
 PROG - Select PROGRAM MODE.
 RT - Return to the HIPPI menu
 ST - Set current step to n

 Enter a command: rt
```