

DSSTS

**Hydrologic Engineering Center
Data Storage System
Regular Interval Time-Series
Data Entry Program**

User's Manual

**Version 2.8
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DSSTS

1. Introduction

DSSTS is a program for entering regular interval time series data into a HEC-DSS data base file. Regular interval time series data has an implicit date/time associated with each data value, whereas irregular interval time series data uses an explicit date/time for data.

DSSTS is a prompt driven program that requests information from the user. It may be run interactively (input from the keyboard), or in a batch mode with input from a file. To execute DSSTS in a batch mode, the input that would normally be typed interactively are placed into a file, then the program is executed with that file specified as input (e.g., "DSSTS input=myfile").

If desired, all information entered at the keyboard can be copied into a "log file" by specifying the log file name on the command line ("DSSTS logfile=mylog"). If an abort or some other error should occur, DSSTS may be rerun using the logfile as the input (e.g., "DSSTS input=mylog").

If an illegal value is entered during an interactive execution (e.g., a letter instead of a number), the program will re-request the last piece of data. If an illegal value is entered during a batch execution, the program will terminate.

2. Use

2.1 The program is initiated by entering its name (and the directory of where the program is located, if needed):

```
DSSTS
```

2.2 Optional parameters that may be specified on the execution line are:

<u>Name</u>	<u>Default</u>	<u>Description</u>
INPUT	standard in	Command input file
OUTPUT	standard out	Output file
DSSFILE	none	DSS file
LOGFILE	SCRATCH.002	Copy of input commands

The execution line parameters may be abbreviated to 2 characters (INPUT can be IN).

If a command input file is specified on the execution line, it should contain DSSTS input as if it were being entered at the keyboard (NOT just data). If a DSS file name is provided on the execution line, the program will not ask for it.

3. Command Input

3.1 DSSTS prompts with "ENTER DSS FILE NAME", whereby the user enters the name of the DSS file to use. If the file does not exist, it will be created.

3.2 "ENTER PATHNAME, OR PATHNAME PART(S), OR FINISH".

The full six part pathname, including slashes (/), may be given, or individual pathname parts may be specified. To enter individual pathname parts, type the part letter (A, B, C, D, E, or F) followed by an equal sign "=" then the part. One to six parts may be entered, separated by a comma or a blank space. If a pathname had been given earlier, then those parts not specified will remain the same as in the earlier pathname. The pathname must follow the regular interval time-series conventions specified in the HEC-DSS Overview, Appendix A. Upon the completion of entering all data, typing "FINISH" at this point will terminate the program.

3.3 "ENTER UNITS OF DATA (E.G. CFS, FEET)".

The units of the data may be specified with up to eight characters.

3.4 "ENTER DATA TYPE (E.G. PER-AVER, INST-VAL)".

One of the following four data types must be given:

```
PER-AVER
PER-CUM
INST-VAL
INST-CUM
```

3.5 "ENTER THE DATE AND TIME FOR THE FIRST DATA VALUE".

The date and time for the first data value are to be provided in a military style format (e.g., 05FEB74). The time follows the date, separated by a space or comma, and is given in 24 hour clock time (e.g., 0830 for 8:30 a.m.).

3.6. "ENTER DATA VALUES.

ENTER END AT THE BEGINNING OF LINE WHEN DONE"

The data is to be entered at this point, corresponding to the date and time given on the prompt. One or more data values may be provided on each line. The data may be given in an integer or real format, but not in scientific notation. A missing data value may be specified by entering the letter "M", or the value -901. The data may cross the pathname date boundary specified by the "D" part of the pathname. If an illegal data value is entered, the program will request that value (and all following values) again.

When the entry of data for this pathname has been completed, type "END" to store the data in

2 DSSTS

the DSS data file. After this, the program will return to step 2, where a new pathname may be specified, or the program may be terminated by entering "FINISH".

4. Example

```
dssts
ENTER DSS FILE NAME
FILE = datab
-----DSS---ZOPEN EXISTING FILE OPENED 71 datab.dss

ENTER PATHNAME, OR PATHNAME PART(S), OR FINISH
I>/SCIOTO/WALDO/FLOW/01JAN1984/1DAY/OBS/
/SCIOTO/WALDO/FLOW/01JAN1984/1DAY/OBS/
ENTER UNITS OF DATA (E.G. CFS, FEET)
I>CFS
ENTER DATA TYPE (E.G. PER-AVER, INST-VAL)
I>INST-VAL
ENTER THE DATE AND TIME FOR THE FIRST DATA VALUE
I>28DEC84, 1320
Enter data values.
Enter END at the beginning of the line when done.
28DEC84, 1320 >932 M 940.5 945
01JAN85, 1320 >950
02JAN85, 1320 >955,956, 958 949 M M M
09JAN85, 1320 >930 928.6 927.4
12JAN85, 1320 >END
-----DSS---ZWRITE FILE 71, VERS. 1 /SCIOTO/WALDO/FLOW/01JAN1984/1DAY/OBS/
-----DSS---ZWRITE FILE 71, VERS. 1 /SCIOTO/WALDO/FLOW/01JAN1985/1DAY/OBS/

ENTER PATHNAME, OR PATHNAME PART(S), OR FINISH
I>B=DUBLIN, C=STAGE
/SCIOTO/DUBLIN/STAGE/01JAN1984/1DAY/OBS/
ENTER UNITS OF DATA (E.G. CFS, FEET)
I>FEET
ENTER DATA TYPE (E.G. PER-AVER, INST-VAL)
I>INST-VAL
ENTER THE DATE AND TIME FOR THE FIRST DATA VALUE
I>02JAN85, 0830
Enter data values.
Enter END at the beginning of the line when done.
02JAN85, 0830 >6.54 6.56 6.61 M M 6.66
08JAN85, 0830 >6.7
09JAN85, 0830 >6.72 6.74 M 6.80
13JAN85, 0830 >M
14JAN85, 0830 >6.84
15JAN85, 0830 >END
-----DSS---ZWRITE FILE 71, VERS. 1 /SCIOTO/DUBLIN/STAGE/01JAN1985/1DAY/OBS/

ENTER PATHNAME, OR PATHNAME PART(S), OR FINISH
I>FINISH

-----DSS---ZCLOSE FILE 71
NO. RECORDS= 11
FILE SIZE= 15819 WORDS, 142 SECTORS
PERCENT INACTIVE= 0.00
```