WATDSS

Hydrologic Engineering Center
Data Storage System
Watstore to DSS Data Entry Program

User's Manual

Version 2.4
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Hydrologic Engineering Center
U.S. Army Corps of Engineers
609 Second Street
Davis, California 95616-4687
(916) 756-1104

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Introduction

Program WATDSS extracts daily flow data from a Watstore format 3 file, or data from a Watstore format B file, and stores it in a HEC-DSS data base file. The data is stored in the regular interval time series format. WATDSS is not capable of storing other types of data, nor is it capable of retrieving data from the USGS. The file read by WATDSS may have come from the USGS, or it may have been created from a CD-ROM data base. When creating a data file from CD-ROM, the "card" format is the correct format to use.

All data in the input data file may be stored in the HEC-DSS file, or data for select stations (not selected times) may be stored. The A, B, C, and F pathname parts may be specified, or defaults will be used. If the B (location) parts are not given, the USGS gage numbers from the data file will be used. To specify the B parts, a file must be created that contains the USGS gage number followed by the appropriate B part for the data set for each station to store. The other pathname parts are given as execution line parameters.

Use

All parameters, except for the optional B part names, may be specified on the execution line. The available parameters are:

Name	Default	Description
INPUT	standard in	File containing the Watstore data
OUTPUT	standard out	Output and error messages
DSSFILE	none	DSS file to store the data in
A	WATS	A (basin) part of the pathnames
C	FLOW	C (parameter) part of the pathnames
F	OBS	F (additional identifier) part of the pathnames
SID	none	Name of file containing station ID's and B parts
ALL	YES	Store all data in the input file. If set to NO, store data for only those stations in the station ID (SID) file.

The minimum parameters required are the input file (containing the Watstore data) and the

DSS file name to store the data in. If the DSS file does not exist, it will be created. To specify a parameter on the execution line follow the program name by a space or comma, the parameter name (or abbreviation), an equal sign, then the parameter (with no spaces). For example:

```
watdss input=mydata dssfile=datab
```

In this example, all data in the Watstore file "mydata" (which was created earlier from CD-ROM or retrieved from the USGS) is stored in the DSS file named "datab". The pathnames of the data have an A part of "WATS", a B part of the USGS gage number, a C part of "FLOW", and an F part of "OBS".

Execution line parameter names may be abbreviated to 2 characters. They may be given in any order on the execution line. For example:

```
watdss in=mydata dss=datab a=sacramento f=usgs
```

(Note that the parameter names and the pathname parts may be either in lower or upper case. Pathnames are converted to upper case when the data is stored in the DSS file.)

The B parts of pathnames can be set by the use of a station ID file. The station ID file is a file created by the user that contains the USGS gage number (found in each data line in the Watstore data file), followed by a comma and the B part of the pathname for that station. There should be one line for each station. For example:

```
0178900,CEDAR CREEK
0137430,BATESVILLE
0843900,CLEAR WATER
```

If this file is named "mysids", the execution line might be:

```
watdss in=mydata dss=datab a=sacramento f=usgs sid=mysids all=NO
```

If only selected stations are to be stored in the DSS file (assuming that the Watstore data file contains more stations than you want), a station ID file must be created with the station names of the data to store, and the "ALL" execution line parameter set to "NO". For example:

```
watdss in=mydata dss=datab a=sacramento f=usgs sid=mysids all=NO
```

If the "ALL=NO" parameter is not given, all data in the Watstore file will be stored in the DSS file. Those stations without entries in the station ID file will have a B part of their USGS gage number. Note that there is no capability to specify a time window for data.

Example

Watstore format 3 data was retrieved from CD-ROM, using the "`card`" format. The data was stored in a file given the name "`cache.flo`". It contains the following:

```
Z                              USGS
H 11452500      384331121482200060611 3SW180201101139.00   0.00 0052.27-99999.00
N 11452500      CACHE CREEK AT YOLO, CALIF.
2 11452500      999999999999   60    3                ENT
3 11452500      198410 1     18     19     19     19     20     18     16     18
3 11452500      198410 2     21     23     31     34     32     27     22     23
3 11452500      198410 3     26     24     23     20     21     21     21     21
3 11452500      198410 4     23     25     26     26     25     26     27
3 11452500      198411 1     28     22     16     14     14     14     14     20
3 11452500      198411 2     15     18     23     25    104    357    188    176
3 11452500      198411 3    311    219    143    130    113    100     88     93
3 11452500      198411 4    102    151    130   1340    717    416 999999
3 11452500      198412 1    314    272    344    474    334    291    291    318
3 11452500      198412 2    234    243    418    339    275    245    233    227
3 11452500      198412 3    224    213    191    175    166    165    156    153
3 11452500      198412 4    152    151    154    157    152    147    144
3 11452500      1985 1 1    142    140    116     92     86     82     90     92
3 11452500      1985 1 2    104     96     91     88     82     80     78     77
3 11452500      1985 1 3     75     74     71     70     69     67     66     65
3 11452500      1985 1 4     64     65     63     62     61     60     60
```

A (small) file containing the USGS gage number and the selected gagename was created and named "`cache.sid`". It contains the following:

```
11452500,YOLO
```

The execution line to load the Watstore data into DSS is:

```
watdss in=cache.flo dss=cache.dss a=cache sid=cache.sid
```

The output from this execution is:

```
   -----DSS---ZOPEN:  New File Opened,  File: cache.dss
                      Unit:  71;  DSS Version: 6-IG
 -----DSS---ZWRITE: /CACHE/YOLO/FLOW/01JAN1984/1DAY/OBS/
 -----DSS---ZWRITE: /CACHE/YOLO/FLOW/01JAN1985/1DAY/OBS/
   -----DSS---ZCLOSE Unit:  71,   File: CACHE.DSS
              Pointer Utilization:   .25
              Number of Records:      2
              File Size:     14.6  Kbytes
              Percent Inactive:    .0
```