

# Chapter 14

## Installation and Batch Operation of SACPRE

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### Installation of SACPRE

#### *Computer Requirements*

The minimum system requirements for running SACPRE are:

- System unit - IBM PC-AT or compatible using a 80286 processor
- Monitor - CGA monochrome to multi-sync configured as VGA
- Hard disk - Any
- Operating System - Microsoft DOS 3.1 or later.

This program will make use of an Intel or Cyrex co-processor if present however a co-processor is not required for operation. Computers configured with an ANSI video driver will produce undesirable screen graphics, but will still run successfully.

#### *Contents of SACPRE Directory on Floppy Disk*

The following files are provided to set up and operate SACPRE:

<b>Filename</b>	<b>Description</b>
Hpres.exe	Preprocessor program
Display.com	Utility to display screens
Mark.com	Utility to mark memory
Release.com	Utility to release memory to last mark
H1pre.lbr	Library of screens
Hpre.bat	Batch file to run the program
Sacpre.doc	SACPRE setup and operation instructions
Readme.bat	Batch file to assist reading Sacpre.doc
Cvtint.exe	Utility to make old intermediate files (before October 1, 1994) compatible with this version of SACPRE

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## Installation of SACPRE (continued)

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### *Program Installation*

The following procedure is recommended for installing SACPRE:

Step	Action
1	Make a subdirectory in the root drive (usually C:) named "SACPRE". If you are updating a previous version of this program, delete all copies of the files "HPRES.EXE" and "H1PRE.LBR" prior to installation.
2	Copy all files from the source disk into the SACPRE subdirectory.
3	Include the SACPRE directory along with directories containing HEC-1 and your editor(s) in the computer path.

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### *Computer Path*

The program may be invoked from any area in the system if the program directory exists in the PATH command contained in the computer autoexec.bat file. Revise the path command to include the directories for SACPRE, HEC-1, and your editor and reboot. See your Microsoft DOS Manual for additional information on the Path command.

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### *Running the Program Interactively*

To invoke the preprocessor program in interactive mode, change to the directory containing the SACPRE program and enter "HPRE". The program will be invoked and will prompt the user for data.

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## Batch Operation of SACPRE

**Command Format** To run the program in batch mode, the following command format is used:

**HPRES 'Filename'<,'Output Filename','S1','S2','S3',Rec,Dur,Area,System>**

Descriptions of the command parameters are given below.

Parameter	Description	Valid Entries
"Filename"	The name of the previously prepared intermediate file containing the basin data.	The file name <b>MUST</b> be placed between apostrophes. The extension (.int) need not be included.
"Output Filename"	The name of the HEC-1 input file to be created.	The file name <b>MUST</b> be placed between apostrophes.
S1	Switch for producing a summary print file with the extension ".prn".	'Y' and 'N'. Entry of 'Y' will direct the program to produce the summary output file and entry of 'N' will direct the program not to produce this file. <b>This switch variable MUST be placed between apostrophes.</b> Default value is 'N'
S2	Switch for updating program variables based on storm recurrence.	'Y' and 'N'. Entry of 'Y' will direct the program to update program variables which are defined internally based on recurrence. Entry of 'N' will prevent the program from updating these variables. <b>This switch variable MUST be placed between apostrophes.</b> Default is 'Y'.
S3	Switch for updating program variables based on storm duration.	'Y' and 'N'. Entry of 'Y' will direct the program to update program variables which are defined internally based on storm duration. Entry of 'N' will prevent the program from updating these variables. <b>This switch variable MUST be placed between apostrophes.</b> Default is 'Y'
Rec	The storm recurrence for the present run.	2, 5, 10, 25, 50, 100, 200 or 500 (years). No characters or decimal points are allowed in this variable field. If entered, this recurrence interval will override the recurrence interval defined in the intermediate file.
Dur	The storm duration for the present run.	6, 12, 24, 36 (hours), 5 or 10 (days). No characters or decimal point are allowed in this variable field. If entered, this storm duration will override the storm duration defined in the intermediate file.
Area	The total study area for the present run.	All positive real numbers up to 9999.9999.
System	The system of units desired for HEC-1 data file.	"E" for the English System of Units or "S" for the International System of Units.

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## Batch Operation of SACPRE (continued)

**Examples**

All variables must be separated by commas. Entry of variables after the filename are optional. The preprocessor program will use the default values for S1, S2, S3, if not defined in the command line. The values in the intermediate file will be used for all other undefined variables. Valid and invalid examples of invoking the preprocessor program in batch mode are shown below.

Valid Examples
HPRES 'TEST','OUT','Y','Y','Y',100,12,3.54, 'E'
HPRES 'TEST.INT', , , , , 200, , , 'S'
HPRES 'TEST'
HPRES 'TEST', , , , , , 209.32,
HPRES 'TEST', , , 'N', , , , ,

Invalid Examples
HPRES TEST,OUT,Y,Y,Y,100,12,3.54,E
HPRES 'TEST', , , , ,200.,
HPRES 'TEST', , , N , , , , ,
HPRES 'TEST', 209.32