

SECTION 0 PRELIMINARIES.

0.0 Getting Started.

Hisoft Pascal 4T (HP4T) is a fast, easy-to-use and powerful version of the Pascal language as specified in the Pascal User Manual and Report (Jensen/Wirth Second Edition). Omissions from this specification are as follows:

- FILES are not implemented although variables may be stored on tape.
- A RECORD type may not have a VARIANT part.
- PROCEDURES and FUNCTIONS are not valid as parameters.

Many extra functions and procedures are included to reflect the changing environment in which compilers are used; among these are POKE, PEEK, TIN, TOUT and ADDR.

The compiler occupies approximately 12K of storage while the runtimes take up roughly 4K. Both are supplied on cassette tape in the tape format used by the runtimes. All interfacing between HP4T and the host machine takes place through vectors conveniently placed at the start of the runtimes (see HP4T Alteration Guide) - this makes it easy for the user to write his own customised I/O routines if necessary.

Hisoft Pascal 4T uses various control codes, mostly within the editor. Of course, different systems can have very different keyboard designs and thus will have different ways of reaching control codes. In this manual the control characters used will be referred to as RETURN, CC, CH, CI, CP, CS and CX. The attached Implementation Note will tell you the corresponding keys for your system.

Whenever HP4T is waiting for a line of input, the control characters can be used as follows:

- RETURN is used to terminate the line.
- CC returns to the editor.
- CH deletes the last character typed.
- CI move to the next TAB position.
- CP directs output to the printer (if available) or if output was going to the printer then it returns to the screen.
- CX deletes the whole line typed so far.

A simple loader is also supplied in the package so that the user can load, from tape, data which has been recorded in HP4T format.

Thus, to load the compiler and runtimes from the master tape supplied by Hisoft, the user must first load the loader - when applicable this is supplied in a form suitable for loading by the user's operating system. If the user is unable to access the computer's operating system then the boot loader must be entered into the computer's memory directly either through the use of an assembler or a high level language such as BASIC - details of how to do this and a skeletal loader appear in the HP4T Installation Guide.

Once the loader has been executed it will proceed to search for a file recorded in HP4T tape format. When a file of this format has been found the loader will load the file into memory. If at any stage an error is detected while reading the tape a message will be displayed - you must then rewind the tape to the beginning of the file and attempt to load it again. If you experience repeated errors then adjust the volume level on your tape recorder - if this is not successful then please return the tape to Hisoft and we will send you a replacement tape.