ERROR MESSAGES

Standard Error Message

- ? (question mark) is the standard error message in Max-FORTH. An error exists when Max-FORTH responds with a ? prefixed with one of the following:
- the most recently entered word which is not part of the ${\tt Max-FORTH}$ dictionary

or

- the most recently entered number which is not valid under the current BASE.

Example: Enter WRONG . WRONG is not a part of the Max-FORTH dictionary, therefore, Max-FORTH will respond with WRONG ? .

Enter HEX . Max-FORTH will respond with OK . TYPE $10\mathrm{H}$. Max-FORTH will respond with $10\mathrm{H}$? since $10\mathrm{H}$ is not a valid hexadecimal number.

STANDARD ERROR MESSAGE ROUTINE

Max-FORTH has a standard routine for handling errors depending on the value of the user variable WARNING which is not named in the dictionary of Max-FORTH V3.3 and older versions:

WARNING value Max-FORTH action

less than 0 $\,$ executes the word ABORT (as vectored through user variable UABORT)

0 (default) prints an error message number n

greater than 0 assumes that a disk (RAMdsk) is in use, takes screen 1 and indexes into it for line to show with error.

ERROR MESSAGE DEFINITIONS

When Max-FORTH detects an error condition, it may respond with an error message which corresponds to an error message number shown in the Table below. Max-FORTH clears the stacks and executes QUIT as its last actions when an error is processed, except for the following messages:

NOT UNIQUE Has no effect on stacks, Max-FORTH execution continues normally.

HAS INCORRECT ADDRESS MODE Shows the name of the code word being defined, the name of assembler op-code word be interpreted, and the message number.

Max-FORTH ERROR MESSAGES

Number	Message	Definition	Recovery Action
0	?	Echoed word was the most	Check the
•	•	recently interpreted.	word's name for
		The word isnot in the	spelling error or
		dictionary or is not a	define the named
		valid number.	word. Check
		varia manacr.	if the number is
			valid under current
			BASE or change BASE.
1	STACK EMPTY	Parameter stack is	Use proper stack
1	STACK ENTIT	empty.	management. Correct
		Cmp c y .	use of numbers on
			the stack. Match
			available
			to number needed by
			current operation.
			Carrent Operation.
2	DICTIONARY	Dictionary space is used	Increase dictionary
4	FULL	up. FIRST HERE is	space by moving
	FULL	less than \$A0	FIRST, or by
		1035 Chan 9710	FORGETing disposable
			word entries.
3	HAS INCORRECT	Address mode for	Correct the address
3	ADDRESS MODE	assembler	mode.
	ADDRESS MODE	op-code is incorrect.	mode.
4	NOT UNIQUE	The <name> of the word</name>	Latest definition of
4	NOT UNIQUE	just defined already	<pre><name> will be used.</name></pre>
		exist	See further
		in the dictionary.	explanation
		in the dictionary.	following table.
5-6		Not Assigned	loriowing cable.
7	FULL STACK	The parameter stack is	Use proper stack
,	TULLSTACK	full	management. DROP or
			output some stack
			item
8-16		Not Assigned	1 CCIII
17	COMPILATION	The word just	Do not use the word
1 /	ONLY	interpreted must be used	outside a colon
	UNLI	inside of a definition.	definition. Probably
		inside of a definiteion.	structure words such
			as DO, IF, BEGIN,
			etc.
18	EXECUTION	The word just	Do not use the word
10	ONLY	interpreted must be used	inside a colon
	ONLI	outside of a definition.	definition. Probably
		outside of a definition.	words like .(etc
10	CONDITTONATE	Omitted words or	Correct or add the
19	CONDITIONALS NOT PAIRED		conditional pair.
	NOI PAIRED	incorrect nesting	_
		of conditionals	Probably
			IF used without
			corresponing THEN

20	DEFINITION NOT FINISHED	Definition is not finished or delimiter is missing.	Finish the definiton or add delimiter. Probably, DO used without corresponding LOOP.
21	IN PROTECTED DICTIONARY	The word in question is below the FENCE	Quit trying to FORGET a protected word or move FENCE
22	USE ONLY WHEN LOADING	<pre>Incorrect use of the word></pre>	Do not use> when not loading
23	NO NAME	Name expected in input, not found	Use appropriate <name> string. Probably a defining word expected a string to convert into a name</name>

A further explanation may be useful in understanding the special "NOT UNIQUE" waring. This is a warning and not an error, per sa. If the two definitions are an exact match, the latest definition will be used and the former definition will remain in the dictionary, but can not be found, since all searches of the dictionary stop at the latest occurrence found. This message may also occur when full sized name matches reduced-number-of-characters name in ROM. To save space in the ROM some words had a reduced number of characters stored in their name field. For instance, in the WORDS list, the word LOOP can be seen as "EE82 LOO_". This shows LOOP has only three significant characters in its name in the internal ROM, but is listed as having 4 total characters (as can be verified by the indicating an truncated character). Consider what happens when a new word is defined with the name LOOK. The new words name matches LOO . So the warning is issued. No problem occurs in this case, however. Both names can still be found. When LOOK is referenced the new definition is found in the dictionary search. When LOOP is used, the new definition LOOK is not considered a match because of the explicitly expressed characters. The P and K characters don't match. The earlier definition LOO does match. The three significant characters LOO match and the total length 4 matches as well. So both definitions can still be referenced, even though a warning message was issued.