$\Delta FIX\ Preprocessor\ Cheat\ Sheet$

$[\Delta FIX \ Cheat \ Sheet.md]$

Cat.	Item	Example
Cont.	Continuation line symbol or (dots / diaereses are ignored)	a÷1 + 2 + 3 4 5 s÷'one two three four five' [See also Continuing DQ Strings]
Cont.	Continuing Parenthetical Expressions Across lines	a← ⁻ 1+(2* 31 32 33)÷(1+:3)
Cont.	Continuing SQ Strings Across Lines	'This is line 1 and line 2.' 'This is line 1 and line 2.'
Cont.	Continuing DQ Strings Across Lines	"This is line1 and line 2." ('This is line1',(□UCS 10),'and line 2.')
Cont.	Quotes with continuation line symbol or	This is a cat alog. This is a catalog.' 'This is a catalog. This is a cat alog.'
Where	Semicolon at end or beginning of line (outside parens, brackets, braces) represents → "where".	C ← A × B ; A←1100 A ¬ "where" ; B←01 C ← A×B¬A←1100¬B←01
Unicode	Decimal []Unnn	<pre>□U123≡□UCS 123 ♦ □U123≡'{'</pre>
Unicode Nums	Hexadecimal ∏Unhhx Hexadecimal Integers dhhhx	□U7BX≡□U123 1122X=123X+0FFFX
Nums	Long number separator	123_245_343_122.35 3.14159_26534
Atoms	Atoms consist of APL names, numbers, and APL strings.	:FOR a :IN `fred 'jack 123'… 3.14159 55
Atoms	Atoms as names `atom1 atom2	colors←`red orange yellow reds← `red orange 1≡∧/reds∈colors
Atoms	Atoms as numbers	local←`CA 14850
Atoms	Atoms as strings `name1 'string2'	Last←`Smith 'Van Buren' Jones
Parms (Para- meters)	Parameters	atom1 atom2→ arbitrary code [See Lists for examples]
Lists	Lists (code1 ; code2;)	Create mappings from names/numbers/ strings to arbitrary code expressions

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Cat.	Item	Example
Lists	Ordinary code (code1; code2;)	test←(≀3 ; ≀4)
Lists	Function parameters	graph←(XY type 3→(≀20)(10≀20); legend x→'Voltage'; legend y→'Amplitude')
Lists	With atoms	<pre>graph(type→`XY 3; smooth → `true; line color→`green; line height→`2.5 in)</pre>
Lists	Omitted parameters (code1;;code3)	address(2525; 'Cozy'; 'Lane'; ; ; 90212; USA) A city/state opal with zip
Lists	Null list ()	Always true: () ≡ θ
Name Suffixes	Is name defined?	:IF printDEF
Name Suffixes	Is name undefined? nameUNDEF	:IF printUNDEF
Name Suffixes	Put name in quotes: nameQ (possibly after macro or other processing)	□NPARTS fileNameQ
Name Suffixes	Get value of environment variable 'name'	PATH←PATHENV{×≢α: ω <> α}'.:'
Direc- tive	If clause ::IF code	::IF O≠≢DEBUGENV
Direc- tive	Test that name is defined	::IFDEF DEBUG_FLAG
Direc- tive	Test that name is not defined	::IFNDEF DEBUG_FLAG
Direc- tive	Undefine name	::UNDEF DEBUG_FLAG
Direc- tive	Else-if clause ::ELSEIF/ELIF code	::ELSEIF DEBUG_FLAG≥3
Direc- tive	Terminate ::IF, ::IFD EF or ::IFNDEF sequence	::END, ::ENDIF, ::ENDIFDEF, ::ENDIFNDEF
Direc- tive	Conditional with single variable name	::COND DEBUG □←CUR_RESULT
Direc- tive	Conditional with arbitrary parenthetical expression	::COND (DEBUG≥3) □←CUR_RESULT
Direc- tive	Preprocessor messages ::MESSAGE/MSG text	::MSG DEBUGGER CODE ACTIVATED!
Direc- tive	Preprocessor error msgs ::ERROR [num] string	<pre>::IF CONFLICTING_OPTIONS ::ERROR 911 Conflicting Options Detected!</pre>

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Cat.	Item	Example
Direc-	Include a file	::INCLUDE MyLocalData.dat
tive	unconditionally	
Direc-	Include a file if not	::CINCLUDE printServices.dyalog
tive	already included	
	earlier	