ΔFIX Preprocessor Cheat Sheet

[ΔFIX Cheat Sheet.md]

Cat.	Item	Example
Cont.	Continuation Lines … (dots / diaereses are ignored)	a←1 + 2 + … 3 4 5

Cont.	Continuing Parenthetical Expressions Across lines	a←¯1+(2*
		  31 32 33)÷
		  1+⍳3

Cont.	Continuing Strings Across Lines “string”	str← “This is line 1 and line 2”
Unicode	Decimal ⎕Unnn	⎕U123≡⎕UCS 123 ⋄ ⎕U123≡'{'
Unicode	Hexadecimal ⎕Unhhx	⎕U7BX≡⎕U123
Nums	Hexadecimal Integers dhhhx	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 red←`red orange ∧/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 → code	graph←XYPlot 3 → (⍳20) (10⍳20)

Lists	Lists (code1 ; code2;)	graph←(XYPlot 3→(⍳20)(10⍳20);
		  legend x→’Voltage’;
		  legend y→’Amplitude’
		  )

	Ordinary code (code1; code2;)	
	With parameters (atom1 → code1; atom2a atom2b → code2;)	
	With atoms (`atom1; `atom2)	

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Cat.	Item	Example
	Omitted parameters (code1;;code3)	
	Null list ()	
	Name suffixes	
	Is name defined? name..DEF	
	Is name undefined? name..UNDEF	
	Put name in quotes: name..Q	
	Possibly after macro processing	
	Get value of environment	
	variable 'name': name..ENV	
	Preprocessor Directives	
	If clause ::IF code	
	If name is defined ::IFDEF name	
	Undefine name ::UNDEF name	
	Else-if clause ::ELSEIF code	
	::ELSEIF or ::ELIF	
	End of If/Ifdef sequence ::END	
	::END, ::ENDIF, ::ENDIFDEF	
	Conditional statement ::COND expression statement	
	Parenthetical expr (...)	
	Expression without internal blanks aεb	
	Preprocessor messages ::MSG string ::MESSAGE string	

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Cat.	Item	Example
	Preprocessor error msgs ::ERROR [num] string	
	File Inclusion	
	Include unconditionally ::INCLUDE file	
	Include if not already ::CINCLUDE file	