

ΔFIX Preprocessor Cheat Sheet

[ΔFIX Cheat Sheet.md]

Cat.	Item	Example
Cont.	Continuation Lines ... (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+ι3)
Cont.	Continuing DQ Strings Across Lines	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 ^/redsecolors
Atoms	Atoms as numbers	local←`CA 14850
Atoms	Atoms as strings `name1 'string2'	Last←`Smith 'Van Buren' Jones
Parms (Parameters)	Parameters	atom1 atom2→ arbitrary code [See Lists for examples]
Lists	Lists (code1 ; code2;)	Create mappings from names/ numbers/strings to arbitrary code expressions
Lists	Ordinary code (code1; code2;)	test←(ι3 ; ι4)
Lists	Function parameters	graph←(XY type 3→(ι20)(1οι20); legend x→'Voltage'; legend y→'Amplitude')
Lists	With atoms	graph(type→`XY 3; smooth → `true; line color→`green; line height→`2.5 in)
Lists	Omitted parameters (code1;;code3)	address(2525; 'Cozy'; 'Lane'; ; ; 90212; USA) A city/state opal with zip
Lists	Null list ()	Always true: () ≡ Θ

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Cat.	Item	Example
Name Suffixes	Is name defined? name..DEF	:IF print..DEF
Name Suffixes	Is name undefined? name..UNDEF	:IF print..UNDEF
Name Suffixes	Put name in quotes: name..Q (possibly after macro or other processing)	□NPARTS fileName..Q
Name Suffixes	Get value of environment variable 'name'	PATH←PATH..ENV{×≠α: ω <> α}'...'
Direc- tive	If clause ::IF code	::IF 0≠DEBUG..ENV
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, ::IFDEF 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	::IF CONFLICTING_OPTIONS ::ERROR 911 Conflicting Options Detected!
Direc- tive	Include a file unconditionally	::INCLUDE MyLocalData.dat
Direc- tive	Include a file if not already included earlier	::CINCLUDE printServices.dyalog