$\Delta FIX\ Preprocessor\ Cheat\ Sheet$

[Δ 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+ι3) |
| 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". For semicolons within parens, see Lists. Parens inside brackets follow APL standards.) | S+ (A×x*2)+(B×x)+C ; A+10 ; B+5 ; C+01 ; x+100 S+(A×x*2)+(B×x)+C+A+10+B+5+C+01+x+110 S 3.141592654 8.141592654 33.14159265 78.14159265 143.1415927 228.1415927 333.1415927 458.1415927 603.1415927 768.1415927 |
| Where | What about "where" inside parentheses? Use ⊣, where you might have used ';'. | S←myNS.((A×x*2)+(B×x)+C ¬ A←10 ¬ B←-5 ¬ C←01 ¬ x←1100) S←myNS.((A×x*2)+(B×x)+C¬A+10¬B←-5¬C+01¬x←110) |
| Unicode Unicode Nums | Decimal □Unnn Hexadecimal □Unhhx Hexadecimal Integers | <pre>U123≡UUCS 123 ♦ U123≡'{' U7BX≡U123 1122X=123X+0FFFX</pre> |
| | dhhhx | |
| Nums | Long number separator _ (underscore) | 123_245_343_122.35 3.14159_26534 |

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| Cat. | Item | Example |
|----------------------------|---|--|
| 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 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 |
| Lists | Ordinary code (code1; code2;) | test+(≀3 ; ≀4) |
| Lists | Function parameters | <pre>graph←(XY type 3→(120)(10120); legend x→'Voltage'; legend y→'Amplitude')</pre> |
| 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? nameDEF | :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 |

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