amforth 3.1 Reference Card

	Compare	Control Structure
(n1 n2) (n1 u1) (n1 n2) (n1 n2) (n1 n2)	(d1 d2 flag) (d1 d2 flasg) (n1 n2 flag) (n flag) (n1 n2 flag) (n1 flag) (n1 n2 flasg) (n1 flag) (n1 n2 n1 n2) (n1 n2 n1 n2) (n1 n2 flag) (n1 n2 flag) (n flag) (u1 u2 flasg)	<pre>(addr) (addr) (loop-sys) (n) ; R(loop-sys loop-sys) (addr) (n) ; R(loop-sys1 loop-sys2 loop-sys1 loop-sy () R(loop-sys) (loop-sys) (addr) (addr) (addr1 addr2) () ; R(loop-sys) (dest orig dest)</pre> Conversion
(d1 d2) (d1 d2) (d ud)		(d1 n1) (n1 d1)
(d1 d2) (d1 d2) (d1 d2 d3) (d1 d2) (d1 d2 d3) (n1 n2)		Dictionary (n) () () (XT)
(n1 n2) (n1 n2 n3) (n1 n2 n3)	Compiler	Exceptions
<pre>(n1 n2 n3) (n1 n2 d) (n1 n2 n3) (n addr) (n1 n2 n3) (n1 n2 n3) (n1 n2 rem quot) (n1 n2 n3) (n1 n2 n3 rem quot) (n1 n2 n3 rem quot) (d1 n rem ud2)</pre>	()	(n*x) R(n*y) (n*x) R(n*y) (xt) (n*x) R(n*y) (addr) (n)
(ud u2 rem quot) (u1 u2 d) (u1 u2 rem quot)	" () (n <name>) (addr1 addr2)</name>	Extended VM
(0)	() () R(xt) ()	(n) (n) (n) (n2) (n2)
Character IO	(n) () ()	(n1 n2) (n2) (n)
(32) () (c) (f) (c) (f) () () (n) (addr n)	(n <name>) () ,</name>	(n n) (n) (n2) (n2) (n1 n2) (n1 n2) (n offs) (n1 n2) (n offs) (n offs) (n)

```
Hardware Access
                                  Numeric IO
                                                                     System
           ( -- c)
                                             ( -- addr )
          ( -- f)
( -- )
                                                                                ( addr n1 -- n2 )
                                             ( d1 -- )
                                                                                ( n -- )
                                             ( d1 n -- )
           (c -- )
                                                                                ( -- )
                                             ( -- )
          ( -- f)
( -- )
                                                                               ( xt1 -- xt2 )
                                             ( c base -- number flag )
                                                                               ( xt1 xt2 -- )
                                             ( n -- )
                                                                               ( xt -- )
                                              ( n w -- )
                                                                               ( -- f_cou )
( -- addr )
                                             ( -- )
                                             ( -- addr )
IO
                                                                               ( -- )
                                              ( c -- )
                                                                               ; R(i*x - j*x )
                                             ( -- )
                                                                                ( xt1 c<char> -- )
           ( -- f )
                                             (addr -- n )
                                                                               ( -- addr )
                                             ( d1 -- )
( d1 -- addr count )
                                                                               ( xt|0 -- )
                                                                                ( -- )
                                             ( d1 -- 0)
                                                                               ( -- addr n )
Interrupt
                                             ( n -- )
                                                                               ( -- addr )
                                             ( ud1 w -- )
                                                                                ( addr -- )
                                             ( ud w -- )
           ( i -- xt )
                                             ( ud1 -- )
           ( -- sreg )
          ( -- )
( xt i -- )
                                             ( ud w -- )
                                             ( ud n -- )
           ( -- n )
                                                                     System Value
                                  Stack
Logic
                                                                                ( -- v)
                                                                                ( -- edp)
                                             ( -- n )
                                                                               ( -- faddr)
           ( n1 n2 -- n3 )
                                             ( n -- )
           ( n1 -- n2 )
                                                                               ( -- addr)
                                             ( n -- n n )
           ( flag -- flag')
                                                                               ( -- faddr )
                                             ( n1 n2 -- n1 n2 n1 )
           ( n1 n2 -- n3 )
( n1 n2 -- n3)
                                                                               ( -- addr )
                                             ( n1 -- [ n1 n1 ] | 0)
                                                                               ( -- addr )
                                             ( n1 n2 n3 -- n2 n3 n1)
                                                                               ( -- n )
                                             ( -- n)
                                                                                ( -- n*y )
                                             R(n -- n)
                                             ( -- n )
MCU
                                             ; R( n --)
                                             ( n1 n2 -- n2 n1)
          ( -- )
                                             ( n -- )
                                             ; R( -- n)
                                                                     Time
           ( -- )
           ( txbyte -- rxbyte)
           ( addr len -- )
                                                                                ( -- )
           (--)
                                  Stackpointer
                                             ( -- addr)
( -- n)
Memory
                                             (n --)
                                                                     Tools
           ( addr - c1 )
                                             ; R( -- xy)
           (addr-from addr-to n -- )
                                             ( -- addr)
           (addr-from addr-to n -- )
                                             ( -- addr)
                                                                                ( -- c )
           ( c addr -- )
                                             ( -- n)
                                                                                ( -- c )
           ( addr - n)
                                             ( addr -- i*x)
                                                                                ( c-addr len search
start -- [ 0 ] | [ xt [-1 \,
           ( n addr -- )
( addr -- n )
                                                                                ( -- )
                                                                                ( addr len -- [ 0 ] | [i*x -1 )
           ( c-addr u c -- )
                                                                                ( addr -- [ addr 0 ] | [ xt [-1|1]] )
           ( addr -- n1 )
                                                                                ( r-addr r-len f-addr f-len -- f)
                                  String
           ( n addr -- )
                                                                                ( addr -- addr+1 n )
           ( n addr -- )
                                                                                ( addr n -- )
                                                                                ( -- )
                                             ( addr -- addr+1 n)
                                             ( addr1 n1 c -- addr1 n2 )
                                                                               ( n <name> -- )
                                             ( addr1 n1 c -- addr2 n2 )
( char "ccc" -- c-addr u )
                                                                               ( -- n )
Multitasking
                                                                               ( -- )
                                             ( addr1 len1 addr2 -- )
                                                                               ( c -- addr )
```

(addr1 u1 n-- addr2 u2)

(--)

(--)

internal/hidden

```
(-- )
          (f -- )
          (-- addr )
(-- )
          (limit counter -- )
          R(-- limit counter )
          (-- )
          (i*x -- j*x )
          (-- n1 )
(-- )
          R(limit counter -- limit counter+1|)
          (n1 -- )
          R(llimit counter -- limit counter+n1|)
(limit counter -- )
          R(-- limit counter| )
             .dw XT_FETCH
              .dw XT_EXIT
,)
         ( addr len len' -- )
          ( -- addr)
          (spmcsr x addr -- )
          ( n -- )
          R(IP -- IP+1)
          (-- addr )
(-- addr )
          ( xt1 -- xt2 )
          ( xt1 xt2 -- )
          ( -- addr )
          ( addr -- )
          (w -- )
          ( sreg -- )
          ( -- addr )
          ( addr -- )
( xt1 -- xt2 )
          ( xt1 xt2 -- )
          ( -- addr n)
          (x addr -- )
(addr -- )
          (addr -- )
          (-- )
(-- )
          (spmcsr x addr -- )
          ( xt1 -- xt2 )
          ( xt1 xt2 -- )
```