

Vgmn

◇ functionality : a generic VCI compliant micro-network

◇ Mandatory arguments:

· instance name

◇ Optional arguments:

· min_latency

◇ Example:

```
my_vgmn = Vgmn("my_vgmn", 10)
```

Xcache

◇ functionality: a direct mapping cache controller (separated instruction & data cache)

◇ Mandatory arguments:

· instance name

◇ Optional arguments:

· dcache_lines : number of lines in data cache

· dcache_words : number of words per line in data cache

· icache_lines : number of lines in instruction cache

· icache_words : number of words per line in instruction cache

◇ Example:

```
my_cache = Xcache( "my_cache",
                  dcache_lines = 32,
                  dcache_words = 8,
                  icache_lines = 32,
                  icache_words = 8 )
```

Mips

◇ Functionality : a MIPS R3000 micro-processor

◇ Mandatory arguments:

· name

◇ Example:

```
my_proc = Mips("my_proc")
```

MultiRam

◇ Mandatory arguments:

· name

◇ Optional arguments:

· a list of segments, allocated with Segment()

◇ Example:

```
my_ram = MultiRam("my_ram", seg1, seg2, seg3)
```

MultiTty

◇ functionality: a TTY controller (up to 256 TTYs)

◇ Mandatory arguments:

· instance name

· an ordered list of names (one name per emulated terminal)

◇ Example:

```
my_tty = MultiTty("my_tty_controller", "TTY0", "TTY1", "TTY2")
```

Locks

◇ functionality : a locks controller

◇ Mandatory arguments:

· instance name

◇ Example:

```
my_locks = Locks("my_locks_controler")
```