

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")
```