

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_controler", "TTY0", "TTY1", "TT2")
```

Locks

- functionality : a locks controler
- Mandatory arguments:
 - ◆ instance name
- Example:

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