

Multi Purpose PWM block

Feature supports:

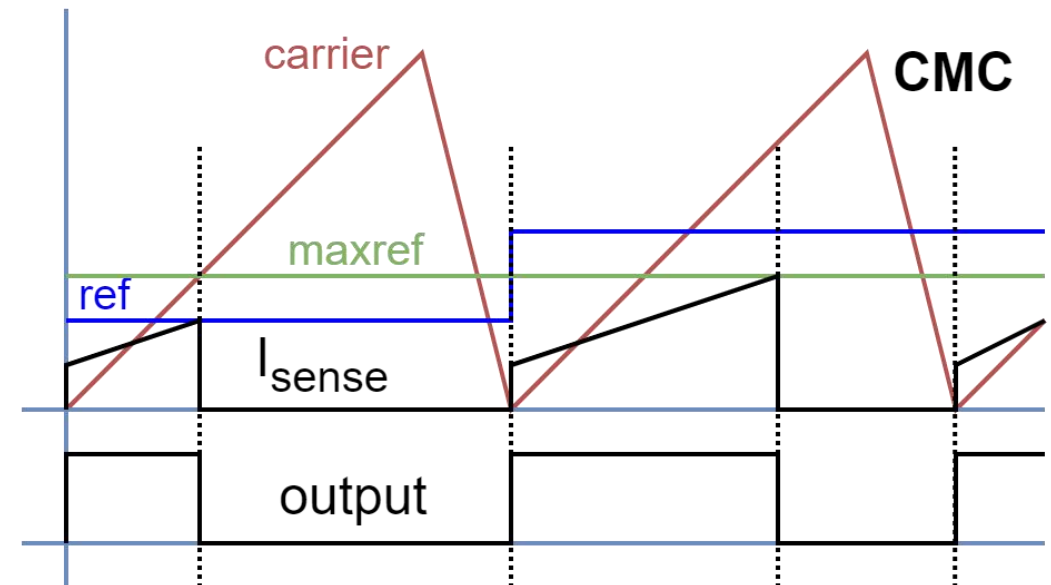
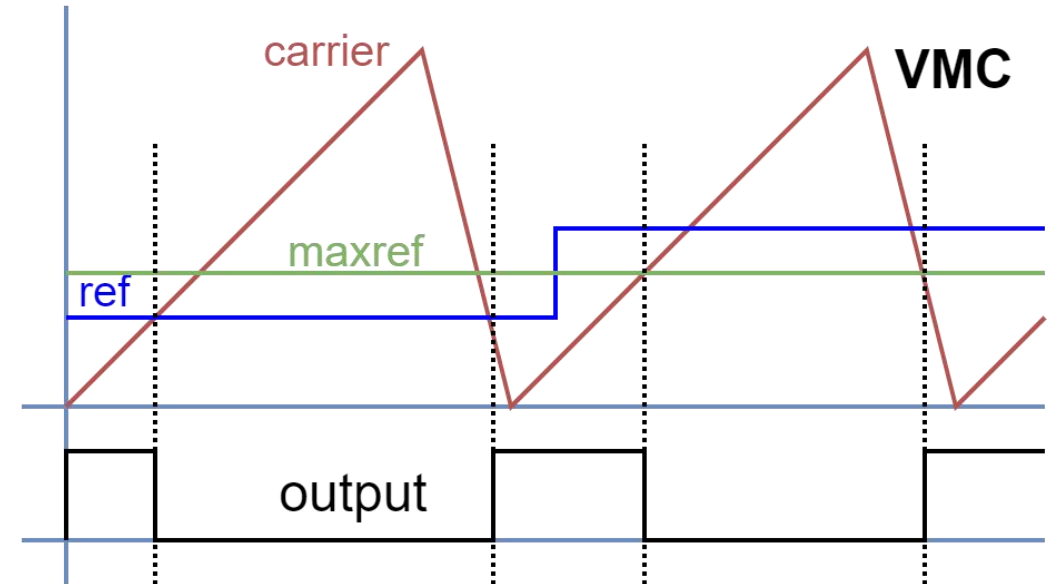
- Complementary output with programmable deadtime
- Maximum duty cycle/reference limiter
- Use C-block Trunc() for improved timing control

By: Arief Noor Rahman

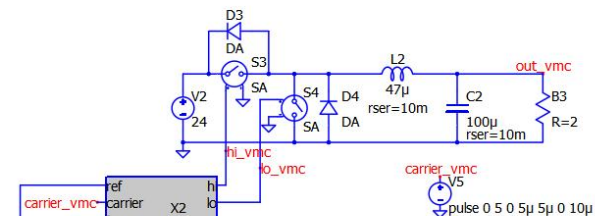
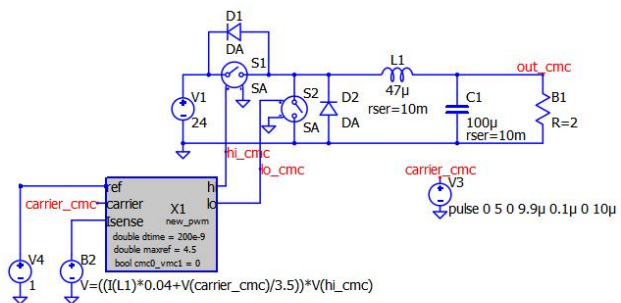
The PWM Block Operating Method

```
ref          hi
carrier      x2  lo
Isense      new_cmc
double dtime = 200e-9
double maxref = 4.5
bool cmc0_vmc1 = 0
```

The “output” signal then will be connected to deadtime module to then generate the “hi” and “lo” signals



The Block Example Use Case (CMC and VMC)



```
.model SA SW ron=40m roff=1E7 vt=0.5 vh=0
.model DA D ron=40m roff=1E7 vfw=0.5 cj0=10p

.tran 0 3m 0 1μ uic
.options method=gear
.options trtol2=0
```

