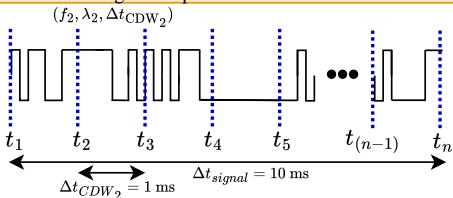


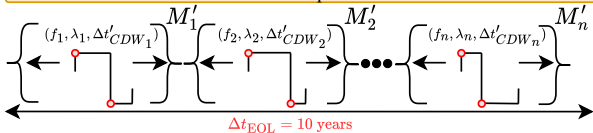
## Original Representative Workload



Workload Parameters:  $\Delta t_{EOL} = 10 \text{ years}$   $n_{CDW} = 10$   $\Delta t_{signal} = 10 \text{ ms}$

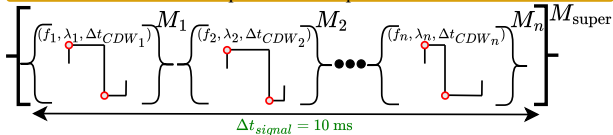
CDW Segment 2:  $f_2 = 1 \text{ GHz}$   $\lambda_2 = 0.7$   $\Delta t_{CDW_2} = 1 \text{ ms}$

## CDW compression



CDW Extrapolation Segment 2:  $\Delta t'_{CDW_2} = \Delta t_{EOL} / n_{CDW} = 1 \text{ year}$   
 $M'_2 = \Delta t'_{CDW_2} \cdot f_2 = 3.156 \cdot 10^{16}$

## Super CDW compression



Super CDW Extrapolation:  $M_{super} = \Delta t_{EOL} / \Delta t_{signal} = 3.156 \cdot 10^9$   
 $M_2 = \Delta t_{CDW_2} \cdot f_2 = 10^6$