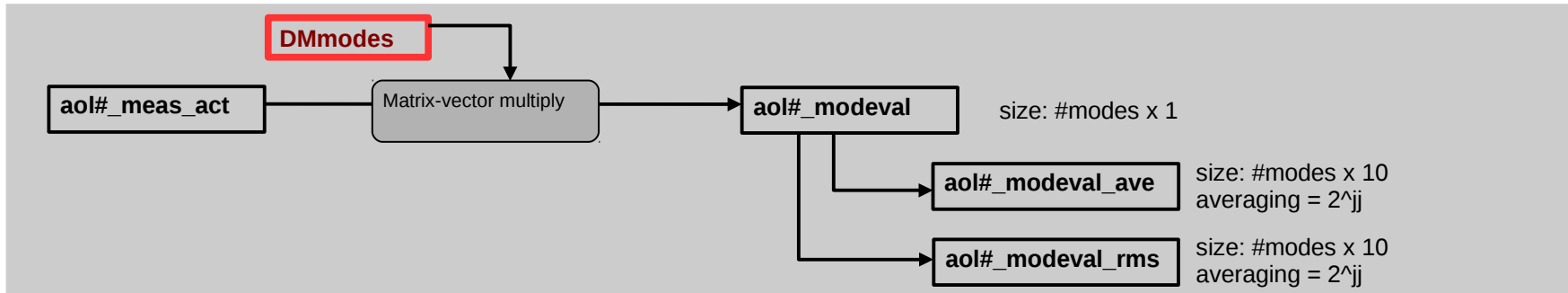
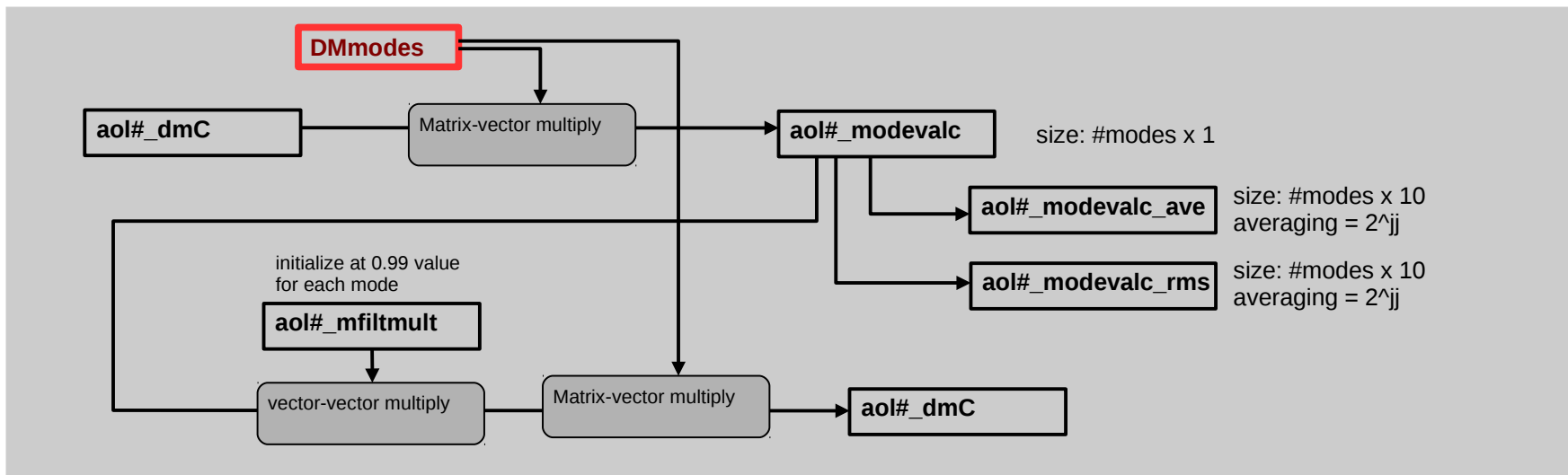


Auxillary processes

Decompose WFS measurements in modes

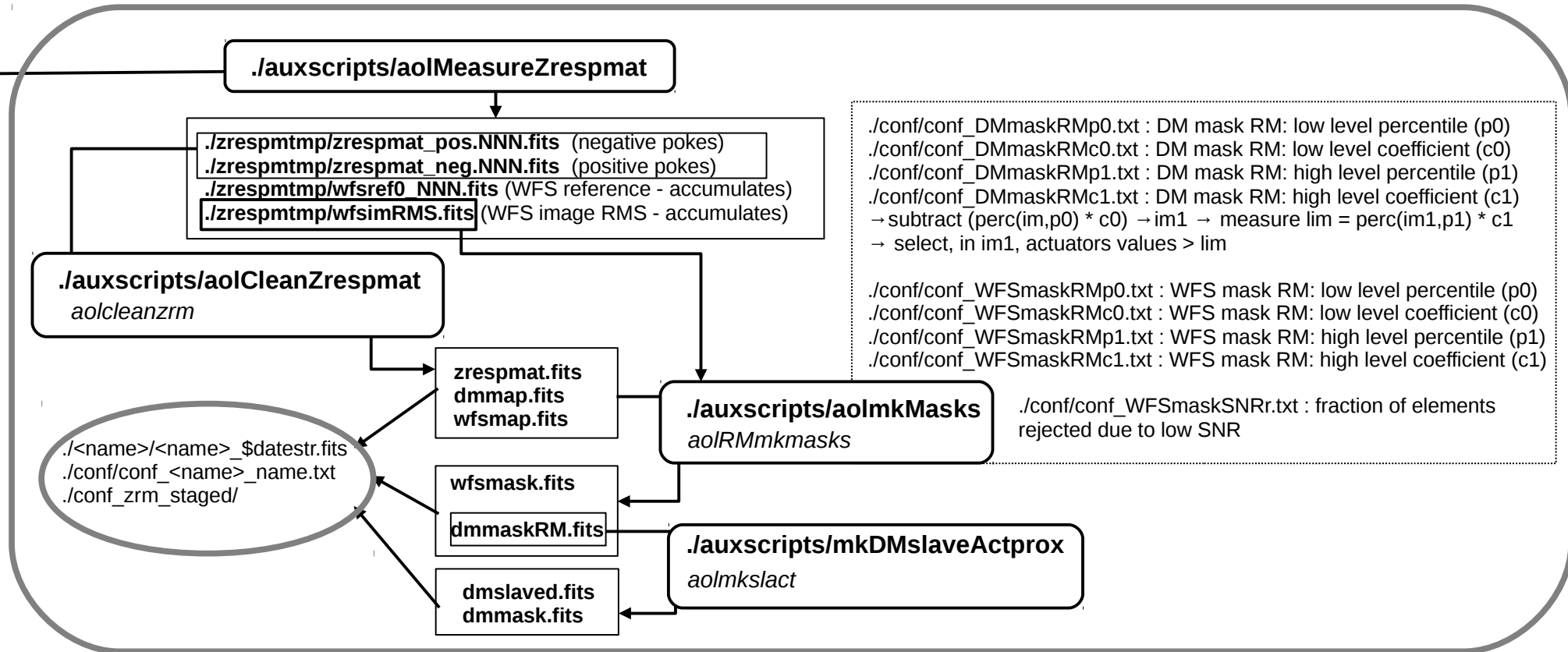


Decompose DM commands in modes + apply modal mult gains

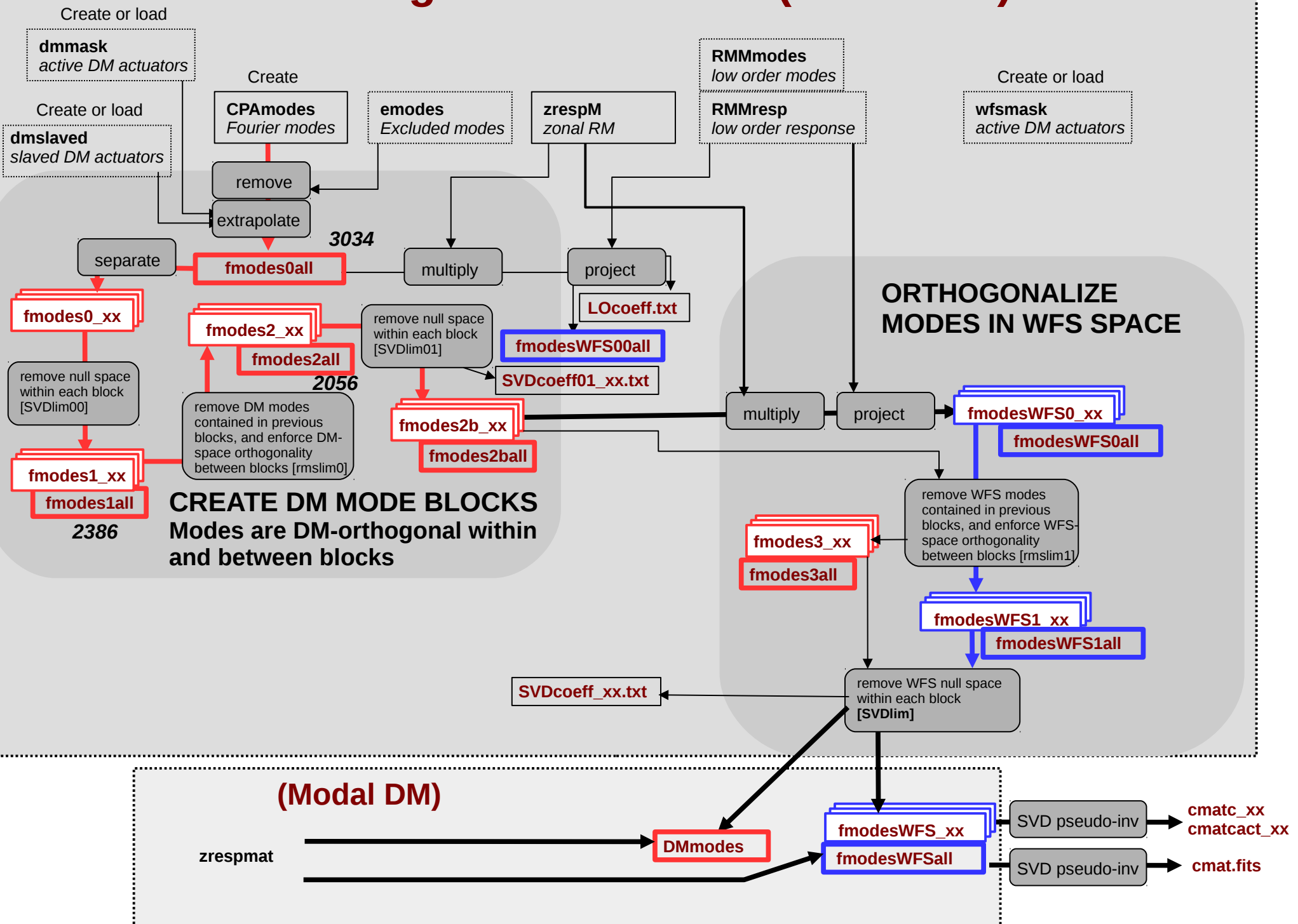


Zonal response matrix acquisition → masks

function_zresp_on → function_zresp_off

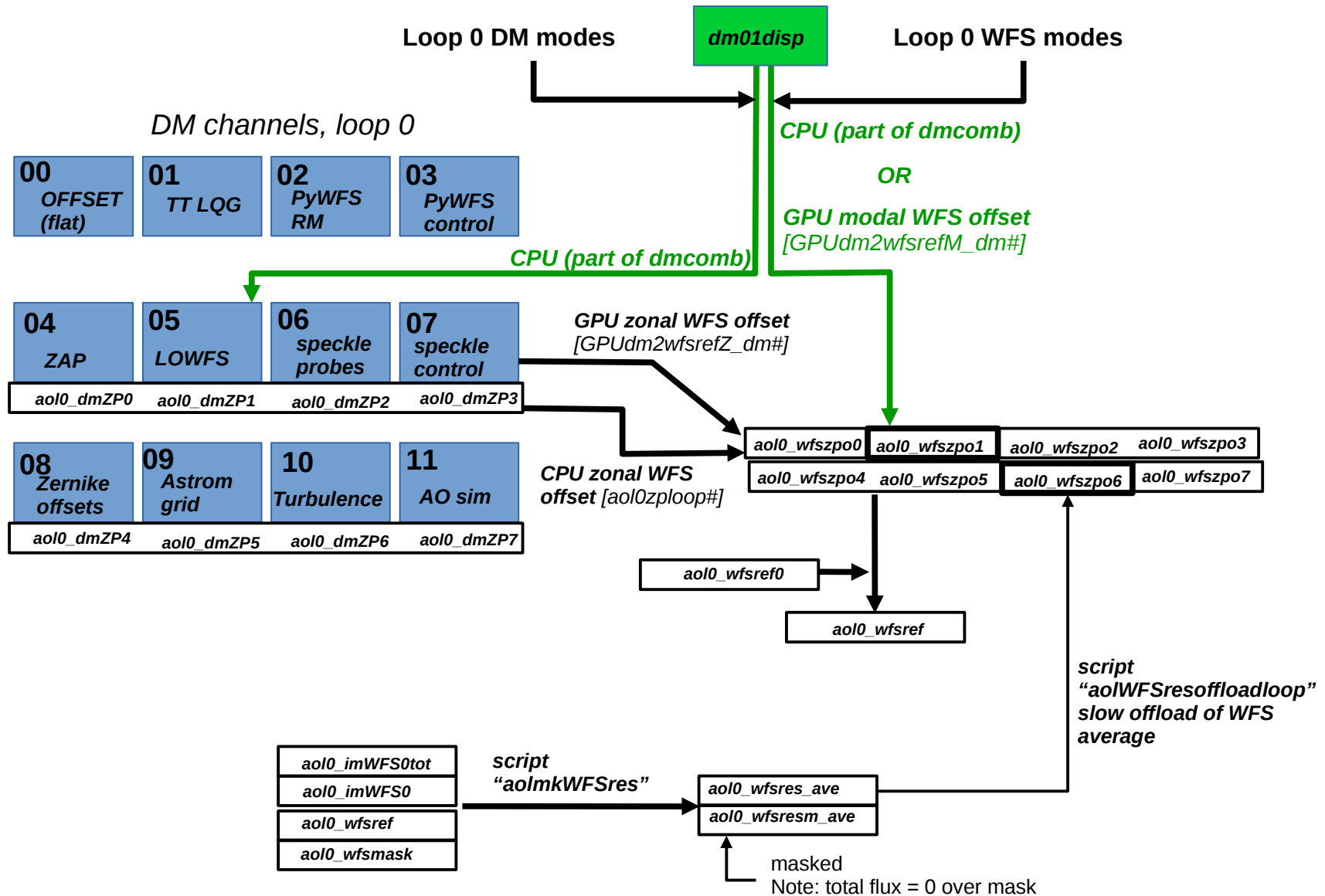


Making control modes (Zonal DM)



OFFSETTING LOWFS (loop #1) → PyWFS (loop #0)

Green color: process is part of loop #1

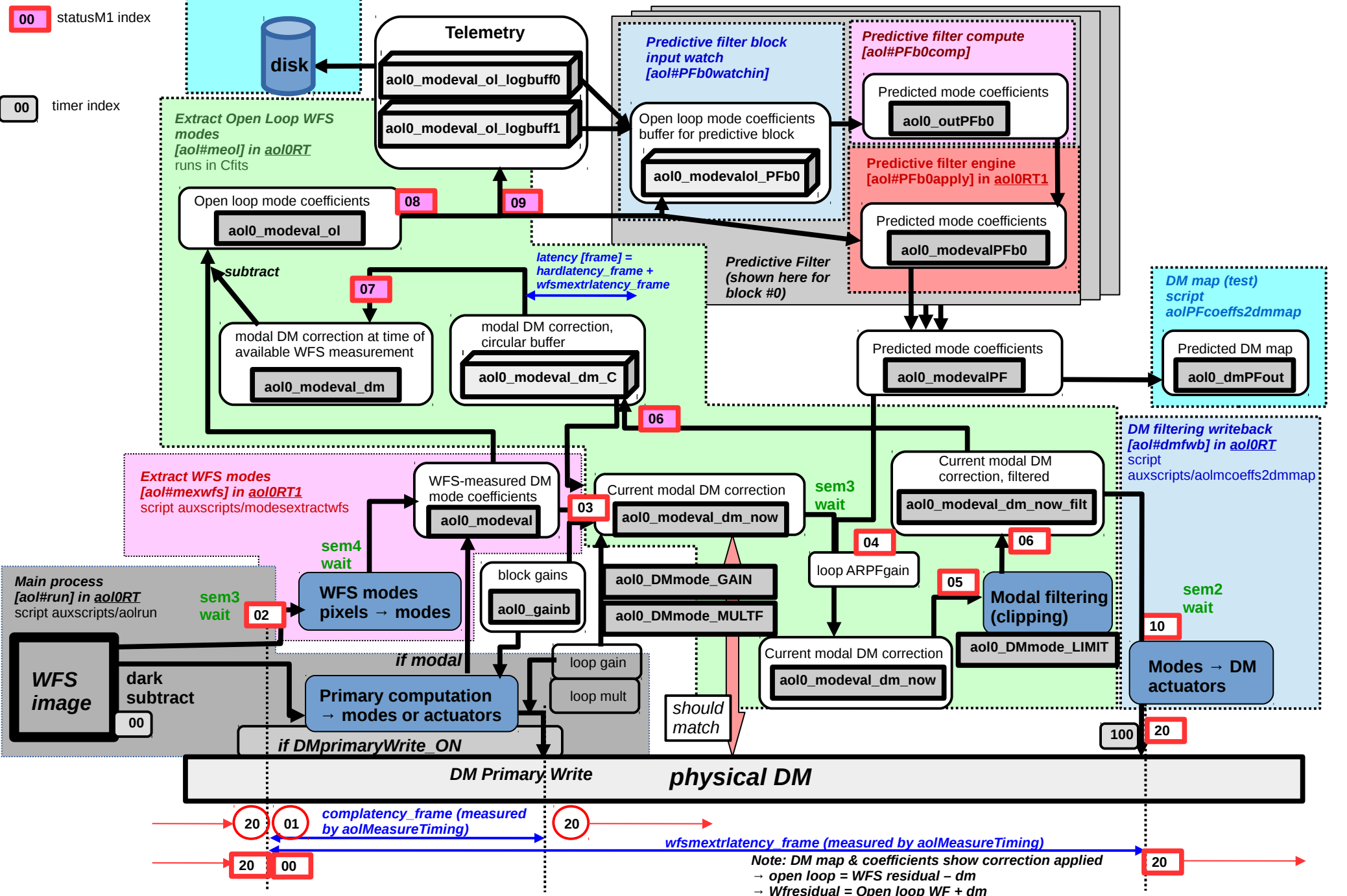


[process name] (same name as tmux session)
aol0RT : CPU set

Processes, output to DM (main loop)

- 01 status index
- 00 statusM index
- 00 statusM1 index
- 00 timer index

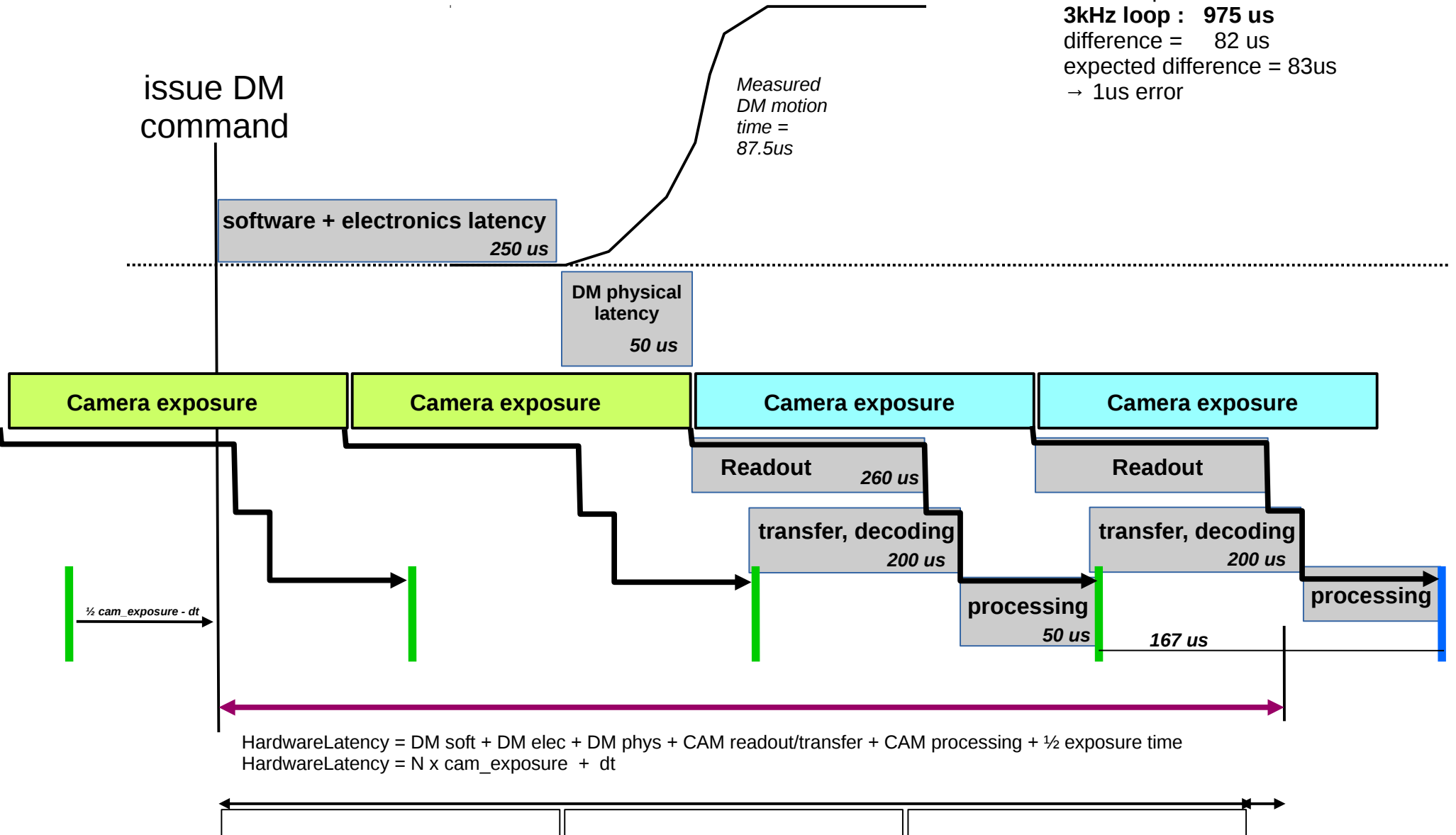
gain[m] = loopgain * gainMB[block] * aol0_DMmode_GAIN[m]
mult[m] = loopmult * multMB[block] * aol0_DMmode_MULT[m]
limit[m] = limitMB[block] * aol0_DMmode_LIMIT[m]



Hardware Latency

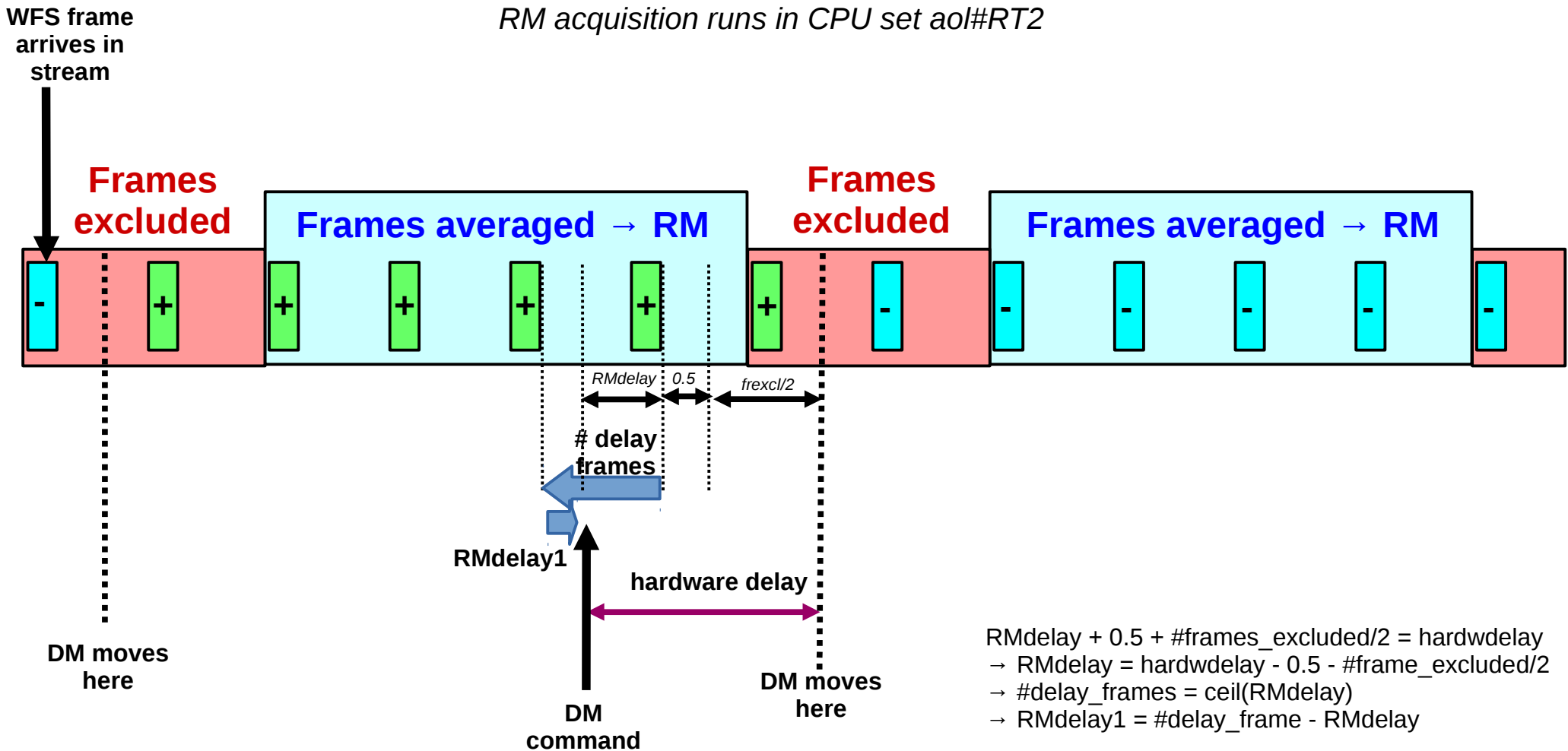
Definition:

Time offset between **DM command issued**, and **mid-point between 2 consecutive WFS frames with largest difference**



RM acquisition - Timing

RM acquisition runs in CPU set aol#RT2



For each file:
conf_<name>_name.txt points to archived file location

conf/conf_<name>_name.txt are read by function ReadConfFile for
loading into shared memory and FITS copy to
./conf/aol#_<name>.fits

Work Flow

