

1-2) Data types,  
events and  
interfaces

AOCS\_Mode: *Enumeration*

NOMINAL\_MODE  
SAFE\_MODE  
SCIENCE\_MODE

Angular\_Velocity: *Struct*

Rate\_X: *Integer* [-30, +30]  
Rate\_Y: *Integer* [-30, +30]  
Rate\_Z: *Integer* [-30, +30]

Duration: *Primitive*

*Integer* [0,  $2^{32}-1$ ]

GYR\_FAILURE: *Event*

Last\_Acq\_AV: Angular\_Velocity

<<interface>>  
AOCS\_IF

Set\_Mode(*in* AOCS\_mode mode)  
Step()

<<interface>>  
GYR\_IF

■ GYR\_AV: ro Angular\_Velocity

<<interface>>  
THR\_IF

Exec\_Thr\_Cmd(*in* Duration dr)