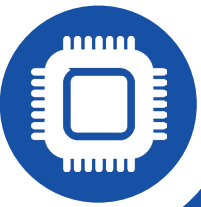


OBCSW team

William Stackenäs



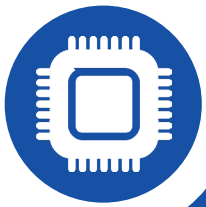
Work to be done before the Mid semester meeting



- Software update
- Finalize TM sources
- Increase size of macrotc repeat count field
- Declare authentication/troubleshooting TC
- Initialization FDIR
- Fix manual memory allocation “bit rotate bug”
- Nanoprop software task
- New CUBES (Macro) TC
- Mutexes/Semaphores
- Continued support to SEUD SmartFusion2 firmware



Work done before the Mid semester meeting

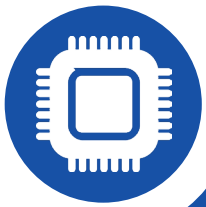


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- IEEE 754 floating point number support in TMTC interface
- Autogenerated docs of python telecommand scripts
- TRXVU bitrate tied to the OBCSW tctype
- Port CLI utilities by John to FT commands understood by the FT task

Period	Required	Preferred (or worst case before launch)
Before integration	<ul style="list-style-type: none"> Define TC to be authenticated/troubleshooting Add new TM Sources in accordance with M154_035 <ul style="list-style-type: none"> Add parts of the ADCS library HK to the basic HK beacon Fix manual memory allocation (bit rotate bug) Increase size of macrotc repeat count field OBCSW software update Decide which TC should have an exectime 	<ul style="list-style-type: none"> TM Rate limiting <ul style="list-style-type: none"> Lower default log verbosity levels Query the free slot count in the TRXVU downlink buffer Find a workaround for potential HCC library deadlocks Update MSP version for all experiments and the OBC Experiment tasks <ul style="list-style-type: none"> CUBES, including New TC and macro TC Nanoprop, including TM/TC and HK SEUD/Camera, including TM/TC and HK Help with SEUD development Semaphores/Mutexes Extract one macro telecommand at a time Initialization phase FDIR <ul style="list-style-type: none"> Autonomous I2C clock speed adjustments Handle low voltage levels Configurable TRXVU bitrates/HK intervals Separate HK interval for realtime/Stored HK



Work to be done before the End-Of-Semester meeting



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