

Sprint 4

User Stories

Code	Story	Status	Notes
[CS18p6]	Implementation and correction of bugs for the binary workflow Run 94 sims using binary workflow and imcalc on the output and verify Run 900 sims	Done	
[IMCalc]	Adding checkpointing Automatically split a long Slurm job into smaller ones (to workaround Slurms's line number limit)	Done	Added checkpointing for running IM Calculations so that the calculation can be carried on from where it was interrupted.
[IMAgg]	<ul style="list-style-type: none">▪ Script to aggregate the outputs of IM_calculations.▪ Generate aggregation for v18p5.▪ Remove the DB code from hazard calculations.▪ Test hazard calculations for old v18p5 (DB) and compare with text based v18p5.▪ Clean the hazard code preparing for handover.	Done	Hazard Calculation changes for v18p6 Hazard Calculations for CyberShake
[Empirical Engine]	Conceptual workflow Zhao subduction ground motion model *to be verified* Model selection Parameters Reading (vs30 file, rupture_distance and srf info)	Partially Complete Dependant on validation And folder outputs Base workflow has been mostly completed	Empirical Engine Unspecified parameter estimation still needs to be done
[IM Plot]	Generate IM plot Waveform timeseries plot Spatial plots of IMs IM vs Distance plot	Done	Generate nonuniform and uniform IM plot maps for Cybershake faults (with different realizations) IM Plot
[TechDebts]	Re-archive 17p9	Done	Removed old files and reduced storage by X
[Codebase]	Wiki pages for each repo containing high-level summary Restructuring SW-related wikipages	Done	SW Codebase 2019