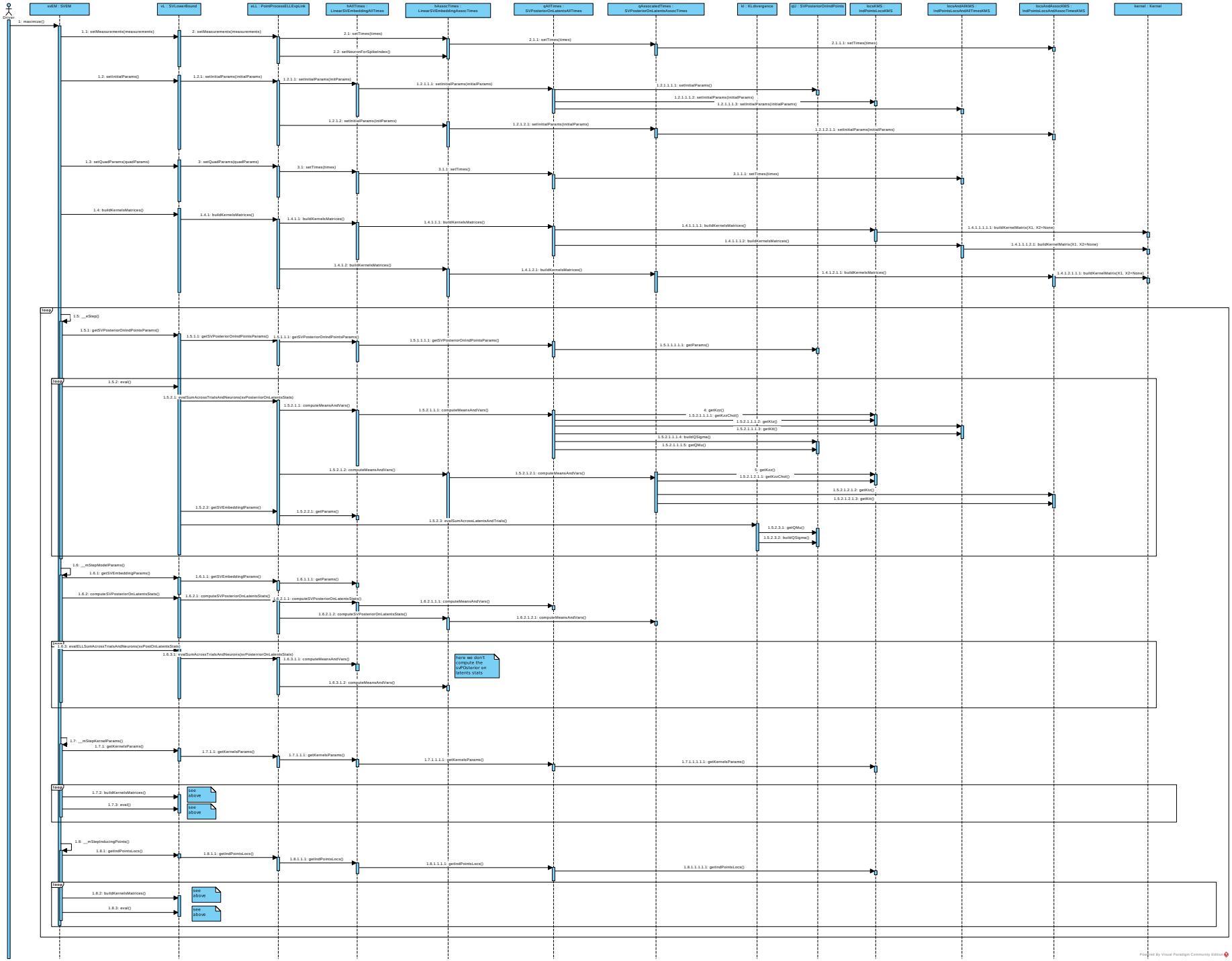
Driver
svEM : SVEM
vL : SVLowerBound
eLL : PointProcessELLExpLink
hAllTimes : LinearSVEmbeddingAllTimes
hAssocTimes : LinearSVEmbeddingAssocTimes
qAllTimes : SVPosteriorOnLatentsAllTimes
qAssociatedTimes : SVPosteriorOnLatentsAssocTimes
kl : KLdivergence
qU : SVPosteriorOnIndPoints
locsKMS : IndPointsLocsKMS
locsAndAllKMS : IndPointsLocsAndAllTimesKMS
locsAndAssocKMS : IndPointsLocsAndAssocTimesKMS
kernel : Kernel
1: maximize()
1.1: setMeasurements(measurements)
2: setMeasurements(measurements)
2.1: setTimes(times)
2.1.1: setTimes(times)
2.1.1.1: setTimes(times)
2.2: setNeuronForSpikeIndex()
1.2: setInitialParams()
1.2.1: setInitialParams(initialParams)
1.2.1.1: setInitialParams(initialParams)
1.2.1.1.1: setInitialParams(initialParams)
1.2.1.1.1.1: setInitialParams()
1.2.1.1.1.2: setInitialParams(initialParams)
1.2.1.1.1.3: setInitialParams(initialParams)
1.2.1.2: setInitialParams(initialParams)
1.2.1.2.1: setInitialParams(initialParams)
1.2.1.2.1.1: setInitialParams(initialParams)
1.3: setQuadParams(quadParams)
3: setQuadParams(quadParams)
3.1: setTimes(times)
3.1.1: setTimes()
3.1.1.1: setTimes(times)
1.4: buildKernelsMatrices()
1.4.1: buildKernelsMatrices()
1.4.1.1: buildKernelsMatrices()
1.4.1.1.1: buildKernelsMatrices()
1.4.1.1.1.1: buildKernelsMatrices()
1.4.1.1.1.1.1: buildKernelMatrix(X1, X2=None)
1.4.1.1.1.2: buildKernelsMatrices()
1.4.1.1.1.2.1: buildKernelMatrix(X1, X2=None)
1.4.1.2: buildKernelsMatrices()
1.4.1.2.1: buildKernelsMatrices()
1.4.1.2.1.1: buildKernelsMatrices()
1.4.1.2.1.1.1: buildKernelMatrix(X1, X2=None)
loop
1.5: __eStep()
1.5.1: getSVPosteriorOnIndPointsParams()
1.5.1.1: getSVPosteriorOnIndPointsParams()
1.5.1.1.1: getSVPosteriorOnIndPointsParams()
1.5.1.1.1.1: getSVPosteriorOnIndPointsParams()
1.5.1.1.1.1.1: getParams()
loop
1.5.2: eval()
1.5.2.1: evalSumAcrossTrialsAndNeurons(svPosteriorOnLatentsStats)
1.5.2.1.1: computeMeansAndVars()
1.5.2.1.1.1: computeMeansAndVars()
4: getKzz()
1.5.2.1.1.1.1: getKzzChol()
1.5.2.1.1.1.2: getKtz()
1.5.2.1.1.1.3: getKtt()
1.5.2.1.1.1.4: buildQSigma()
1.5.2.1.1.1.5: getQMu()
1.5.2.1.2: computeMeansAndVars()
1.5.2.1.2.1: computeMeansAndVars()
5: getKzz()
1.5.2.1.2.1.1: getKzzChol()
1.5.2.1.2.1.2: getKtz()
1.5.2.1.2.1.3: getKtt()
1.5.2.2: getSVEmbeddingParams()
1.5.2.2.1: getParams()
1.5.2.3: evalSumAcrossLatentsAndTrials()
1.5.2.3.1: getQMu()
1.5.2.3.2: buildQSigma()
1.6: __mStepModelParams()
1.6.1: getSVEmbeddingParams()
1.6.1.1: getParams()
1.6.2: computeSVPosteriorOnLatentsStats()
1.6.2.1: computeSVPosteriorOnLatentsStats()
1.6.2.1.1: computeSVPosteriorOnLatentsStats()
1.6.2.1.1.1: computeMeansAndVars()
1.6.2.1.2: computeSVPosteriorOnLatentsStats()
1.6.2.1.2.1: computeMeansAndVars()
loop
1.6.3: evalELLSumAcrossTrialsAndNeurons(svPostOnLatentsStats)
1.6.3.1: evalSumAcrossTrialsAndNeurons(svPosteriorOnLatentsStats)
1.6.3.1.1: computeMeansAndVars()
here we don't compute the svPosterior on latents stats
1.6.3.1.2: computeMeansAndVars()
1.7: __mStepKernelParams()
1.7.1: getKernelsParams()
1.7.1.1: getKernelsParams()
1.7.1.1.1: getKernelsParams()
1.7.1.1.1.1: getKernelsParams()
1.7.1.1.1.1.1: getKernelsParams()
loop
1.7.2: buildKernelsMatrices()
1.7.3: eval()
see above
see above
1.8: __mStepInducingPoints()
1.8.1: getIndPointsLocs()
1.8.1.1: getIndPointsLocs()
1.8.1.1.1: getIndPointsLocs()
1.8.1.1.1.1: getIndPointsLocs()
1.8.1.1.1.1.1: getIndPointsLocs()
loop
1.8.2: buildKernelsMatrices()
1.8.3: eval()
see above
see above
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