old

ite 10 at time 90s I=5A CVed in 11ite 2.5037s voltage=3.9381V SOCn=0.98104 SOCp=0.98492 dt=10 dV/dt=-0.00024411

avg(ce)=1035.4748 avg(csn)=29317.31 avg(csp)=17403.0113 memory=46059081728 PreNewt=2.4096s MatInv t=0.069086s PostNewt t=0.000566

updt dtso=0.038404s Calc Jac=2.2263s Calc f=0.11547s Calc gJacg=0.012825s assemble=0.016315

jacdiag=0.88969s jacce=0.33143s jacpe=0.34123s jacps=0.31813s jaccsn=0.1758s jaccsp=0.16942s jaccedce=0.12764

new ce

ite 10 at time 90s I=5A CVed in 11ite 2.4588s voltage=3.9381V SOCn=0.98104 SOCp=0.98492 dt=10 dV/dt=-0.00024411

avg(ce)=1035.4748 avg(csn)=29317.31 avg(csp)=17403.0113 memory=46063902720 PreNewt=2.3622s MatInv t=0.069651s PostNewt t=0.0005833

updt dtso=0.039484s Calc Jac=2.1726s Calc f=0.11902s Calc gJacg=0.013616s assemble=0.017108

jacdiag=0.82322s jacce=0.33112s jacpe=0.34742s jacps=0.32092s jaccsn=0.17698s jaccsp=0.1723s jaccedce=0.047045

new ce and cedpe

ite 10 at time 90s I=5A CVed in 11ite 2.1591s voltage=3.9381V SOCn=0.98104 SOCp=0.98492 dt=10 dV/dt=-0.00024411

avg(ce)=1035.4748 avg(csn)=29317.31 avg(csp)=17403.0113 memory=46053793792 PreNewt=2.0752s MatInv t=0.060383s PostNewt t=0.0005967

updt dtso=0.035427s Calc Jac=1.9034s Calc f=0.11064s Calc gJacg=0.010193s assemble=0.015261

jacdiag=0.74478s jacce=0.23294s jacpe=0.3192s jacps=0.29421s jaccsn=0.15531s jaccsp=0.15668s jaccedce=0.042853

new ce and cedpe and cedps

ite 10 at time 90s I=5A CVed in 11ite 2.1894s voltage=3.9381V SOCn=0.98104 SOCp=0.98492 dt=10 dV/dt=-0.00024411

avg(ce)=1035.4748 avg(csn)=29317.31 avg(csp)=17403.0113 memory=46052712448 PreNewt=2.0971s MatInv t=0.063561s PostNewt t=0.0005898

updt dtso=0.038732s Calc Jac=1.9152s Calc f=0.11414s Calc gJacg=0.011568s assemble=0.017114

jacdiag=0.77811s jacce=0.17477s jacpe=0.33047s jacps=0.30559s jaccsn=0.1639s jaccsp=0.16197s jaccedce=0.043929

new all ce

ite 10 at time 90s I=5A CVed in 11ite 2.0162s voltage=3.9381V SOCn=0.98104 SOCp=0.98492 dt=10 dV/dt=-0.00024411

avg(ce)=1035.4748 avg(csn)=29317.31 avg(csp)=17403.0113 memory=46051102720 PreNewt=1.9319s MatInv t=0.060518s PostNewt t=0.000609

updt dtso=0.035849s Calc Jac=1.7625s Calc f=0.10769s Calc gJacg=0.010375s assemble=0.015323

jacdiag=0.74967s jacce=0.099213s jacpe=0.31663s jacps=0.29066s jaccsn=0.15353s jaccsp=0.15245s jaccedce=0.042425

new all ce all cs

ite 10 at time 90s I=5A CVed in 11ite 1.7626s voltage=3.9381V SOCn=0.98104 SOCp=0.98492 dt=10 dV/dt=-0.00024411

avg(ce)=1035.4748 avg(csn)=29317.31 avg(csp)=17403.0113 memory=46282186752 PreNewt=1.677s MatInv t=0.062302s PostNewt t=0.0006104

updt dtso=0.036973s Calc Jac=1.4998s Calc f=0.1123s Calc gJacg=0.011224s assemble=0.016424

jacdiag=0.67886s jacce=0.098633s jacpe=0.31697s jacps=0.29635s jaccsn=0.0543s jaccsp=0.054408s jaccedce=0.042477

new all ce all cs all pe

ite 10 at time 90s I=5A CVed in 11ite 1.5276s voltage=3.9381V SOCn=0.98104 SOCp=0.98492 dt=10 dV/dt=-0.00024411

avg(ce)=1035.4748 avg(csn)=29317.31 avg(csp)=17403.0113 memory=46295420928 PreNewt=1.4373s MatInv t=0.063342s PostNewt t=0.0005799

updt dtso=0.036444s Calc Jac=1.2557s Calc f=0.11208s Calc gJacg=0.011548s assemble=0.021313

jacdiag=0.62295s jacce=0.10175s jacpe=0.11697s jacps=0.30164s jaccsn=0.057704s jaccsp=0.054245s jaccedce=0.044974

new all ce cs pe ps

ite 10 at time 90s I=5A CVed in 11ite 1.3672s voltage=3.9381V SOCn=0.98104 SOCp=0.98492 dt=10 dV/dt=-0.00024411

avg(ce)=1035.4748 avg(csn)=29317.31 avg(csp)=17403.0113 memory=46288044032 PreNewt=1.2662s MatInv t=0.071863s PostNewt t=0.0005574

updt dtso=0.039201s Calc Jac=1.0774s Calc f=0.11913s Calc gJacg=0.013615s assemble=0.016478

jacdiag=0.60175s jacce=0.11264s jacpe=0.12654s jacps=0.11141s jaccsn=0.062316s jaccsp=0.062259s jaccedce=0.047223

new all and minor updates kappa Diff

ite 10 at time 100s I=5A CVed in 15ite 0.66511s voltage=3.9367V SOCn=0.97923 SOCp=0.98358 dt=10 dV/dt=-0.00019732

avg(ce)=1036.0997 avg(csn)=29264.8794 avg(csp)=17457.6313 memory=45862924288 PreNewt=0.54706s MatInv t=0.099652s PostNewt t=0.0010637

updt dtso=0.03164s Calc Jac=0.45022s Calc f=0.025865s Calc gJacg=0.014699s assemble=0.024272

jacdiag=0.19106s jacce=0.061229s jacpe=0.074316s jacps=0.057828s jaccsn=0.0322s jaccsp=0.03307s

jaccedce=0.030365 jacpedpe=0.02429s jacpsdps=0.0239s jaccsdcs=0.11215s total=0.1907

new all and minor updates kappa Diff and jac?/dcs

ite 10 at time 95s I=5A CVed in 15ite 0.62274s voltage=3.9372V SOCn=0.97984 SOCp=0.98403 dt=10 dV/dt=-0.00021136

avg(ce)=1035.9233 avg(csn)=29282.4854 avg(csp)=17439.359 memory=45961633792 PreNewt=0.51295s MatInv t=0.093541s PostNewt t=0.0009886

updt dtso=0.030689s Calc Jac=0.41929s Calc f=0.024647s Calc gJacg=0.013356s assemble=0.024652

jacdiag=0.17503s jacce=0.05876s jacpe=0.072337s jacps=0.054775s jaccsn=0.029634s jaccsp=0.028217s

Standard 12/01/2023

ite 10 at time 100s I=5A CVed in 11ite 1.2345s voltage=3.9367V SOCn=0.97923 SOCp=0.98358 dt=10 dV/dt=-0.00019732

avg(ce)=1036.0996 avg(csn)=29264.8794 avg(csp)=17457.6315 memory=3247755264 PreNewt=1.1514s MatInv=0.058269s PostNewt=0.0005376

updt dtso=0.047209s Calc Jac=0.96807s Calc f=0.1115s Calc gJacg=0.0064244s assemble=0.01791

jacdiag=0.55825s jacce=0.090686s jacpe=0.13031s jacps=0.095209s jaccsn=0.046866s jaccsp=0.046515s

jaccedce=0.061728 jacpedpe=0.044847s jacpsdps=0.042328s jaccsdcs=0.40912s total=0.55802

ite 10 at time 100s I=5A CVed in 11ite 1.4441s voltage=3.9367V SOCn=0.97923 SOCp=0.98358 dt=10 dV/dt=-0.00019732

avg(ce)=1036.0996 avg(csn)=29264.8794 avg(csp)=17457.6315 memory=3287900160 PreNewt=1.3599s MatInv=0.058998s PostNewt=0.0005297

updt dtso=0.046287s Calc Jac=1.1576s Calc f=0.13254s Calc gJacg=0.0065532s assemble=0.016634

jacdiag=0.62155s jacce=0.1288s jacpe=0.18302s jacps=0.13366s jaccsn=0.045161s jaccsp=0.045153s

jaccedce=0.087466 jacpedpe=0.071753s jacpsdps=0.06566s jaccsdcs=0.39644s total=0.62132

cs 20x3x20p20

ite 100 at time 1000s I=0A CVed in 9ite 0.40034s voltage=4.2799V SOCn=1.1088 SOCp=0.99767 dt=10 dV/dt=5.7709e-07

avg(ce)=1000 avg(csn)=33014.3426 avg(csp)=16886.2496 memory=3902779392 PreNewt=0.33694s MatInv=0.051566s PostNewt=0.0004998

updt dtso=0.018487s Calc Jac=0.27857s Calc f=0.01828s Calc gJacg=0.0054417s assemble=0.015909

jacdiag=0.12025s jacce=0.038303s jacpe=0.051111s jacps=0.039103s jaccsn=0.014133s jaccsp=0.015459s

jaccedce=0.022234 jacpedpe=0.018224s jacpsdps=0.016687s jaccsdcs=0.062925s total=0.12007

cs 40x3x40p20

ite 100 at time 1000s I=0A CVed in 9ite 1.0984s voltage=4.2803V SOCn=1.1088 SOCp=0.99783 dt=10 dV/dt=5.3746e-07

avg(ce)=1000 avg(csn)=33014.3447 avg(csp)=16879.7584 memory=3729539072 PreNewt=0.71878s MatInv=0.32889s PostNewt=0.0005622

updt dtso=0.032001s Calc Jac=0.55912s Calc f=0.032783s Calc gJacg=0.019303s assemble=0.075309

jacdiag=0.25042s jacce=0.070622s jacpe=0.10271s jacps=0.078502s jaccsn=0.028785s jaccsp=0.027752s

jaccedce=0.045008 jacpedpe=0.03659s jacpsdps=0.031365s jaccsdcs=0.13719s total=0.25016

cs 80x3x80p20

ite 100 at time 1000s I=0A CVed in 9ite 3.9667s voltage=4.2804V SOCn=1.1088 SOCp=0.99791 dt=10 dV/dt=5.196e-07

avg(ce)=1000 avg(csn)=33014.3458 avg(csp)=16876.8418 memory=4174028800 PreNewt=1.648s MatInv=2.0075s PostNewt=0.0006176

updt dtso=0.069244s Calc Jac=1.1525s Calc f=0.073161s Calc gJacg=0.089476s assemble=0.26319

jacdiag=0.51416s jacce=0.15026s jacpe=0.20369s jacps=0.15719s jaccsn=0.062077s jaccsp=0.064617s

jaccedce=0.081413 jacpedpe=0.07061s jacpsdps=0.066075s jaccsdcs=0.29577s total=0.51387

Cs+ce 20x3x20p20

ite 50 at time 500s I=0A CVed in 8ite 0.35763s voltage=4.2793V SOCn=1.0345 SOCp=0.99787 dt=10 dV/dt=2.6634e-06

avg(ce)=0.027404 avg(csn)=30864.5526 avg(csp)=16878.4124 memory=4242399232 PreNewt=0.2986s MatInv=0.047462s PostNewt=0.0004135

updt dtso=0.016122s Calc Jac=0.24911s Calc f=0.016309s Calc gJacg=0.0044708s assemble=0.01242

jacdiag=0.10781s jacce=0.03387s jacpe=0.046163s jacps=0.034978s jaccsn=0.012722s jaccsp=0.013428s

jaccedce=0.019418 jacpedpe=0.016271s jacpsdps=0.015111s jaccsdcs=0.056887s total=0.10769

Cs+ce 40x3x40p20

ite 50 at time 500s I=0A CVed in 8ite 0.96771s voltage=4.2797V SOCn=1.0347 SOCp=0.99801 dt=10 dV/dt=2.4681e-06

avg(ce)=0.033251 avg(csn)=30869.6651 avg(csp)=16872.5068 memory=4271996928 PreNewt=0.64044s MatInv=0.27854s PostNewt=0.0004484

updt dtso=0.03128s Calc Jac=0.49841s Calc f=0.031189s Calc gJacg=0.017287s assemble=0.062044

jacdiag=0.22443s jacce=0.065124s jacpe=0.089777s jacps=0.067723s jaccsn=0.024952s jaccsp=0.026165s

jaccedce=0.038734 jacpedpe=0.032285s jacpsdps=0.029699s jaccsdcs=0.12351s total=0.22423

Cs+ce 80x3x80p20

ite 50 at time 500s I=0A CVed in 8ite 3.171s voltage=4.2798V SOCn=1.0348 SOCp=0.99808 dt=10 dV/dt=2.3838e-06

avg(ce)=0.036846 avg(csn)=30871.9535 avg(csp)=16869.8577 memory=4418588672 PreNewt=1.3686s MatInv=1.5316s PostNewt=0.000515

updt dtso=0.058433s Calc Jac=0.9672s Calc f=0.0626s Calc gJacg=0.072234s assemble=0.2078

jacdiag=0.43142s jacce=0.12631s jacpe=0.17189s jacps=0.13213s jaccsn=0.051274s jaccsp=0.05395s

jaccedce=0.071088 jacpedpe=0.057967s jacpsdps=0.057499s jaccsdcs=0.24474s total=0.4313