

**Old code**

		<b>j1</b>			
		succ10fu0	succ300fu0	succ10fu1	succ300fu1
Law2Cap	Count	134333	134333	134333	134333
	Time (us)	7972908124	7157946827	15021890294	13111859394
	Speed	59.35182065	53.28509619	111.8257635	97.60713595
	(s / 100klt)	<b>56.32</b>		<b>104.72</b>	
NewtonIntegrator	Count	134333	134333	134333	134333
	Time (us)	798286644	811823594	745852710	765575013
	Speed	5.942595222	6.043366812	5.552267202	5.699083717
	(s / 100klt)	<b>5.81</b>			

**New code**

		<b>j1</b>			
		succ10fu0	succ300fu0	succ10fu1	succ300fu1
Law2Cap	Count	134333	134333	134333	134333
	Time (us)	7193202312	5302763960	13273408019	11507206556
	Speed	53.54754462	39.47476763	98.80973416	85.66179983
	(s / 100klt)	<b>46.51</b>		<b>92.24</b>	
NewtonIntegrator	Count	134333	134333	134333	134333
	Time (us)	715152482	709135082	673699190	682198410
	Speed	5.323728957	5.278934305	5.015142891	5.078412676
	(s / 100klt)	<b>5.17</b>			

SpeedUp for NewtonInt with j4

2.2647161953

NewtonIntegrator as reference)

		<b>j4</b>		
		succ10fu0	succ300fu0	succ10fu1
Law2Cap	Count	134333	134333	134333
	Time (us)	7872401713	4506231738	12049034170
	Speed	58.60363212	33.54523265	89.69526602
	(s / 100kt)	<b>46.07</b>		<b>89.70</b>
NewtonIntegrator	Count	134333	134333	134333
	Time (us)	491067207	296025542	336738199
	Speed	3.65559622	2.203669553	2.506742193
	(s / 100kt)		<b>2.79</b>	

		<b>j4</b>		
		succ10fu0	succ300fu0	succ10fu1
Law2Cap	Count	134333	134333	134333
	Time (us)	6461471973	3952528881	10759259760
	Speed	48.100407	29.42336493	80.09394386
	(s / 100kt)	<b>38.76</b>		<b>80.09</b>
NewtonIntegrator	Count	134333	134333	134333
	Time (us)	328678131	235217238	266731532
	Speed	2.446741538	1.751001154	1.985599458
	(s / 100kt)		<b>2.06</b>	