

C:\aa\lvs\v2c\simulations\[sim_results_summary_080227.xls]OCCAM KF

aen - 080227

Uniform schedules: 32 Gbps; VLBI2010 antenna specs (12m, eff 50%, Tsys 50K)

JW sol'ns: OCCAM KF, clk 1e-14@50 rwirw, Vienna turb,wn 4, zwd 0.7,grd 0.5

									SCHED INFO		SOLUTIONS		
Uniform schedule			uniform coverage		optimization reordering		required slew rate			base sol'n	median 3D repeatability (mm)		(with best analysis)
# stns	# srces	interval (sec)	# min	stns drop'd	# obs	schedule?	'0-90 elev	az	el	over the top	el dep wt (correlations)	sph harm	
16	230	15	3	0	0	Y	1.3deg/sec^2 except 30-6-0-0 accel = 3deg/sec^2			0.88	0.84		
		15	3	1	5	Y	32	8		0.86	0.88		
		30	6	0	0	Y	12	3.2	7.8	7.8	0.95		
		30	6	1	5	Y	10.6	2.5	5.2	5.2	1.1		
		45	9	0	0	Y	7.3	1.8	3.9	3.9	1.28		
		45	9	0	12	Y	5.1	1.2	3.1	3.1	1.41		
		45	9	1	0	Y					1.48		
		45	9	1	5	Y	4.9	1.2	2.9	2.9	1.33		
		45	9	1	12	Y	4.2	1.1	2.6	2.6	1.45		
		60	12	0	0	Y	4.8	1.1	2.6	2.6	1.52		
		60	12	1	0	Y	5.8	1.5	2.2	2.2			
		60	12	1	5	Y	3.2	1	2	2	1.75		
		120	12	0	0	Y					3.29		
		120	24	0	0	Y	2.1	0.6	1.2	1.2	3.38		
		120	24	1	5	Y	1.6	0.4	1	1			
24	230	45	9	1	5	Y	5.8	1.4	3.2	3.2			
		45	9	0	0	Y	8.6	2	4.2	4.2			
32	230	45	9	1	5	Y	6.1	1.5	3.6	3.6			

d0In schedules

# stns	# srces				
16	230	3_0p7			3/0.7
		4p5_2p1			4.5/2.1
		6_2p1			6/2.1
		12_3p5			12/3.5

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DSM soln's: SOLVE wzd 6 min; grad 10 min; clock 60 min

										SCHED INFO		SOLUTIONS NEEDED			
Uniform schedule			uniform coverage		optimization reordering		required slew rate			base sol'n	median 3D repeatability (mm)	el dep wt	correlations	sph harm	best (with best)
# stns	# srces	interval (sec)	# min	stns drop'd	# obs	schedule?	'0-90 elev	az	el						
1.3deg/sec^2 except 30-6-0-0 accel = 3deg/sec^2															
16	230														
		15	3	0	0	Y									
		15	3	1	5	Y									
		30	6	0	0	Y	12	3.2	7.8	7.8					
		30	6	1	5	Y	10.6	2.5	5.2	5.2					
		45	9	0	0	Y	7.3	1.8	3.9	3.9					
		45	9	0	12	Y	5.1	1.2	3.1	3.1					
		45	9	1	0	Y									
		45	9	1	5	Y	4.9	1.2	2.9	2.9					
		45	9	1	12	Y	4.2	1.1	2.6	2.6					
		60	12	0	0	Y	4.8	1.1	2.6	2.6					
		60	12	1	5	Y	5.8	1.5	2.2	2.2					
		60	12	1	0	Y	3.2	1	2	2					
		120	12	0	0	Y									
		120	24	0	0	Y	2.1	0.6	1.2	1.2					
		120	24	1	5	Y	1.6	0.4	1	1					
24	230														
		45	9	1	5	Y	5.8	1.4	3.2	3.2					
32	230														
		45	9	0	0	Y	8.6	2	4.2	4.2					
		45	9	1	5	Y	6.1	1.5	3.6	3.6					

d0In schedules

# stns	# srces									
16	230	3_0p7								
		4p5_2p1								
		6_2p1								
		12_3p5								
							3/0.7		2.54	
							4.5/2.1		2.17	
							6/2.1		2.03	
							12/3.5		1.62	

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AP soln's PPP KF

										SCHED INFO			SOLUTIONS						
Uniform schedule			uniform coverage		optimization reordering		schedule?	required slew rate		over the top		base sol'n	median el dep wt	3D correlations	repeatability (mm) sph harm	best (with best analysis)			
# stns	# srces	interval (sec)	# min	stns drop'd	# obs	az	'0-90 elev	el	over the top										
16	230	15	3	0	0	Y	1.3deg/sec^2 except 30-6-0-0 accel = 3deg/sec^2												
		15	3	1	5	Y	12	3.2	7.8	7.8									
		30	6	0	0	Y	10.6	2.5	5.2	5.2									
		30	6	1	5	Y	7.3	1.8	3.9	3.9									
		45	9	0	0	Y	5.1	1.2	3.1	3.1									
		45	9	0	12	Y	4.9	1.2	2.9	2.9									
		45	9	1	5	Y	4.2	1.1	2.6	2.6									
		60	12	0	0	Y	4.8	1.1	2.6	2.6	1.41	1.29			1.21	1.13(edw+sh)			
		60	12	1	0	Y	5.8	1.5	2.2	2.2									
		60	12	1	5	Y	3.2	1	2	2									
		120	12	0	0	Y	2.1	0.6	1.2	1.2									
		120	24	0	0	Y	1.6	0.4	1	1									
		120	24	1	5	Y	8.6	2	4.2	4.2									
							6.1	1.5	3.6	3.6									
24	230	45	9	1	5	Y	5.8	1.4	3.2	3.2									
32	230	45	9	0	0	Y	8.6	2	4.2	4.2									
		45	9	1	5	Y	6.1	1.5	3.6	3.6									

d0In schedules

# stns	# srces				
16	230	3_0p7			3/0.7
		4p5_2p1			4.5/2.1
		6_2p1			6/2.1
		12_3p5			12/3.5