

EADSIM Performance Comparison Tables

CPU Time (s)

	Silicon Graphics® Octane® R10000® 250 MHz 512 MbRAM	Silicon Graphics® O2® R5000® 180 MHz 256 MbRAM	Silicon Graphics® Indigo2™ R4400® 250 MHz 256 MbRAM	Dual Pentium® II 450 MHz 512 MbRAM	Pentium® II 400 MHz 128 MbRAM	Pentium® II 233 MHz 64 MbRAM
Demo300_v7	24.01	53.52	62.00	NA	NA	NA
Demo300_v8	23.59	45.77	56.34	34.23	38.78	117.89
AUSA_TMD_ Burn_time_v7	70.80	153.66	177.43	NA	NA	NA
AUSA_TMD_ Burn_time_v8	45.19	86.98	108.41	65.83	76.95	125.13
AUSA_Double_ Burn_time_v8	67.99	135.85	159.55	103.75	119.44	196.50
AUSA_1K_ Burn_time_v8	105.43	191.70	262.45	125.87	145.70	238.80
AUSA_TMD_ Min_energy_v7	106.24	235.67	283.26	NA	NA	NA
AUSA_TMD_ Min_energy_v8	82.27	177.29	214.21	239.39	277.28	973.87
AUSA_Double_ Min_energy_v8	140.71	313.47	348.02	453.40	524.46	1850.64
AUSA_1K_ Min_energy_v8	178.26	366.07	441.22	475.90	550.57	1928.76

Wall Clock Time (mm:ss)

	Silicon Graphics® Octane® R10000® 250 MHz 512 MbRAM	Silicon Graphics® O2® R5000® 180 MHz 256 MbRAM	Silicon Graphics® Indigo2™ R4400® 250 MHz 256 MbRAM	Dual Pentium® II 450 MHz 512 MbRAM	Pentium® II 400 MHz 128 MbRAM	Pentium® II 233 MHz 64 MbRAM
Demo300_v7	00:29	00:59	01:07	NA	NA	NA
Demo300_v8	00:24	00:50	00:57	00:34	00:40	01:54
AUSA_TMD_ Burn_time_v7	01:27	03:01	03:25	NA	NA	NA
AUSA_TMD_ Burn_time_v8	00:45	01:29	01:48	01:06	01:22	02:05
AUSA_Double_ Burn_time_v8	01:08	02:21	02:37	01:45	02:03	03:15
AUSA_1K_ Burn_time_v8	01:42	03:13	04:22	02:05	02:27	03:58
AUSA_TMD_ Min_energy_v7	02:05	04:36	05:14	NA	NA	NA
AUSA_TMD_ Min_energy_v8	01:23	03:03	03:40	03:58	04:39	16:03
AUSA_Double_ Min_energy_v8	02:25	05:19	05:48	07:32	08:48	30:37
AUSA_1K_ Min_energy_v8	03:02	06:04	07:15	07:53	09:12	31:50

NOTE: The scenario names indicate which version of EADSIM the scenario was executed with (scenario_name_v7 or scenario_name_v8.) Also, all scenarios wrote out file information to the local harddrive of the machine it was executed on. This was done to insure no network delay.

SCENARIO INFORMATION

Demo300

Demo300 is a demonstration scenario that comes with the EADSIM software package. This scenario was executed in the condition in which the EADSIM software is delivered to the customer.

AUSA_TMD_Burntime & AUSA_TMD_Min_energy

These scenarios were created to demonstrate EADSIM performance when launching many tactical missiles. These scenarios are identical except for the type of missile guidance used (Burntime and Minimum Energy Missile Guidance.) The missiles are launched from TELs at various targets which are protected by short range SAM-sites.

Total Platforms:	279
Tactical Missiles:	90
Map Size:	1.61 Mb

AUSA_TMD_Double_Burntime & AUSA_TMD_Double_Min_energy

These scenarios were created from the AUSA_TMD scenarios. In these scenarios the number of missiles launched by the TELs at the various targets were doubled.

Total Platforms:	369
Tactical Missiles:	180
Map Size:	1.61 Mb

AUSA_TMD_1K_Burntime & AUSA_TMD_1K_Min_energy

These scenarios were created from the AUSA_TMD_Double scenarios. In these scenarios the number of SAM-sites were increased by using Group Copy. This increased the amount of network traffic in the scenarios.

Total Platforms:	1007
Tactical Missiles:	180
Map Size:	1.61 Mb