

**a.e. aids**

**GENERAL  ELECTRIC**

SUBJECT: LP/600 TIMINGS FOR GE-625

Attached are timings obtained from a series of linear programming problems, most of which were customer supplied test cases.

These timings were obtained on the following machine configuration:

GE 625  
1 Processor  
64K Memory  
DSU204 Disc

PREPARED BY:

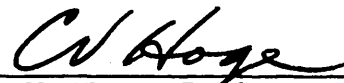


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DP:es

LP/600 TIMINGS

C-608  
1-2-67  
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<u>Problem Numbers</u>	<u>No. Rows</u>	<u>No. Cols.</u>	<u>Density (%)</u>	<u>Avg. No. Non-Zeros per Invert</u>	<u>No.** Inverts</u>	<u>Ave. Time per Invert (Seconds)</u>	<u>No. Iterations</u>	<u>Avg. Time per Iteration (Seconds)</u>	<u>Solution Time (Minutes)</u>	<u>Total Run* Time (Minutes)</u>
1	16	50	18.75	75	1	2.00	28	0.17	0.08	0.35
2	18	25	17.11	121	1	1.00	26	0.07	0.03	1.17
3	20	20	23.75	265	1	1.00	20	0.10	0.05	0.85
4	22	29	8.93	82	1	1.00	26	0.08	0.05	0.33
5	23	23	18.15	290	1	2.00	24	0.08	0.07	0.33
6	28	20	40.54	860	1	1.00	49	0.16	0.10	1.13
7	33	77	31.21	1,174	1	3.00	45	0.27	0.27	1.92
8	34	64	11.26	386	1	3.00	46	0.13	0.18	1.03
9	35	44	23.18	622	1	1.00	33	0.27	0.17	1.68
10	36	77	30.09	1,503	1	3.00	53	0.40	0.40	1.40
11	40	100	21.23	1,411	1	1.00	57	0.30	0.33	1.89
12	46	54	11.07	959	1	5.00	45	0.20	0.25	0.57
13	49	62	13.96	1,606	1	2.00	74	0.24	0.33	1.36
14	67	72	12.05	1,664	1	1.00	75	0.23	0.33	1.72
15	71	246	4.72	2,589	4	3.75	233	0.54	2.33	3.22
16	72	152	9.08	3,972	3	3.67	173	0.39	1.25	2.88
17	72	150	7.89	3,728	3	5.33	166	0.33	1.17	2.77
18	80	87	10.16	1,997	2	2.50	120	0.44	0.97	2.72
19	99	79	10.41	2,402	2	4.00	100	0.43	0.85	2.72
20	104	263	2.91	440	3	4.00	162	0.43	1.33	2.85
21	105	103	6.20	3,030	2	5.00	114	0.44	1.00	2.19
22	118	225	4.45	3,492	5	5.60	374	0.45	3.30	5.30
23	153	158	5.79	7,133	4	11.00	271	1.41	7.11	9.05
24	176	354	4.48	1,682	6	12.67	439	0.33	5.05	14.65
25	220	235	3.84	8,075	5	15.00	325	0.37	8.63	11.55
26	245	352	2.45	6,987	7	25.60	463	1.68	15.93	19.81
27	399	344	2.45	7,939	7	42.00	530	1.79	20.73	26.45
28	557	901	1.40	18,472	24	95.20	1,805	4.30	166.86	178.87
29	653	351	0.87	4,486	10	33.20	743	0.87	16.42	22.59
30	765	1,294	0.82	8,200	23	119.00	1,710	3.30	138.38	154.31
31***	905	1,165	0.57	24,475	36	160.00	2,683	4.30	287.23	299.47

\* Run time from scratch. Includes time for reading of data, data conversion, problem solution, and output of results.

\*\* Internal invert control set to 75 iterations.

\*\*\* Run on 96K memory with drum.