

Table of results on the CUTEr test set for LOQO

The table on the next pages presents the results for every single of the 954 CUTEr problems (as of Jan 1, 2004), used in the paper “On the Implementation of a Primal-Dual Interior Point Filter Line Search Algorithm for Large-Scale Nonlinear Programming” by Andreas Wächter and Lorenz T. Biegler.

The results were obtained for LOQO (Version 6.06) on a PC with a 1.66 GHz Pentium IV microprocessor and 1 GB of memory running RedHat Linux 9.0.

The following table explains the different columns in the table.

Name	Name of the Problem
n	Number of variables
m	Number of equality constraints
# iter	Number of iterations
# f	Number of objective function evaluations
# c	Number of constraint function evaluations
CPU(s)	Required CPU time (in seconds)
$f(x_*)$	Final value of the objective function
$\ c(x_*)\ $	Final unscaled constraint violation (max-norm)
exit	Exit code: 0: Optimal solution found -1: Time limit exceeded 1: Maximal number of iterations exceeded 2: Iteration limit 3: Primal infeasible 5: Primal and/or dual infeasible

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
3PK	30	0	18	20	20	0.00	1.72011856671369E+00	0.0E+00	0
AOENDNDL	45006	15002	15	16	16	28.09	-3.24727078187610E-04	5.1E-07	0
AOENINDL	45006	15002	21	22	22	34.08	-4.36256506799407E-05	7.2E-08	0
AOENSNDL	45006	15002	17	18	18	30.70	-4.03152680956727E-05	6.6E-08	0
AOESDNDL	45006	15002	15	16	16	28.21	-3.17664313949780E-04	5.0E-07	0
AOESINDL	45006	15002	22	23	23	35.07	-1.64977859225939E-05	5.0E-08	0
AOESSNDL	45006	15002	17	18	18	30.74	-6.97608571213750E-05	1.2E-07	0
AONNDNDL	60012	20004	21	22	22	57.68	1.51812696096828E-04	3.1E-07	0
AONNDNIL	60012	20004	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
AONNDNSL	60012	20004	19	20	20	55.48	-1.23933435382880E-04	2.2E-07	0
AONNSNDL	60012	20004	18	19	19	52.59	-4.73538648866566E-05	1.3E-07	0
AONSDSDL	60012	20004	17	18	18	53.84	-2.14018253821899E-05	7.9E-07	0
AONSDSDS	6012	2004	28	29	29	2.78	2.35176731691462E-06	1.9E-07	0
AONSDSIL	60012	20004	213	220	220	371.70	9.09562023762197E-15	9.5E-14	0
AONSDSSL	60012	20004	19	20	20	55.10	1.00250515685372E-04	3.0E-06	0
AONSSSSL	60012	20004	19	20	20	54.95	-6.78810257192860E-05	7.1E-07	0
A2ENDNDL	45006	15002	27	29	29	38.39	4.33676954768521E-05	1.1E-11	0
A2ENINDL	45006	15002	27	28	28	40.13	2.82176776095221E-04	9.6E-10	0
A2ENSNDL	45006	15002	30	31	31	47.30	5.97760502699217E-05	3.8E-11	0
A2ESDNDL	45006	15002	25	26	26	33.54	2.25917459413360E-05	2.7E-12	0
A2ESINDL	45006	15002	29	30	30	40.72	1.71282781249237E-04	2.1E-10	0
A2ESSNDL	45006	15002	27	28	28	50.58	1.94028884906300E-04	3.9E-10	0
A2NNDNDL	60012	20004	29	30	30	58.89	3.66162419404892E-04	3.8E-09	0
A2NNDNIL	60012	20004	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
A2NNDNSL	60012	20004	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
A2NNSNDL	60012	20004	28	29	29	67.58	1.45862025715590E-04	1.7E-07	0
A2NSDSDL	60012	20004	23	24	24	61.09	3.42728601085740E-04	2.1E-09	0
A2NSDSIL	60012	20004	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
A2NSDSSL	60012	20004	26	27	27	68.17	4.84494102952953E-05	2.3E-08	0
A2NSSSSL	60012	20004	26	27	27	67.17	1.68677161496712E-04	2.4E-07	0
A4X12	130	385	778	2286	2286	10.42	6.81638673807957E-01	1.8E-12	0
A5ENDNDL	45006	15002	29	30	30	37.32	6.97233737217904E-05	4.8E-13	0
A5ENINDL	45006	15002	28	29	29	38.84	1.91609300206232E-04	2.0E-10	0
A5ENSNDL	45006	15002	31	33	33	56.68	1.04367269796342E-04	3.1E-11	0
A5ESDNDL	45006	15002	32	34	34	36.98	2.37391798218463E-04	8.2E-12	0
A5ESINDL	45006	15002	31	33	33	40.35	1.46172550277801E-04	1.8E-11	0
A5ESSNDL	45006	15002	28	29	29	52.15	1.38383434518607E-04	1.1E-09	0
A5NNDNDL	60012	20004	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
A5NNDNIL	60012	20004	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
A5NNDNSL	60012	20004	25	26	26	66.46	7.36834483273171E-05	1.3E-08	0
A5NNSNDL	60012	20004	24	25	25	62.54	5.32900074865026E-05	5.5E-09	0
A5NSDSDL	60012	20004	27	28	28	70.46	3.39426347872077E-04	1.2E-09	0
A5NSDSDM	6012	2004	28	29	29	2.70	2.35176731691462E-06	1.9E-07	0
A5NSDSIL	60012	20004	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
A5NSDSSL	60012	20004	24	25	25	64.18	1.83276000924059E-04	7.8E-08	0
A5NSSNSM	6012	2004	28	29	29	2.72	2.35176731691462E-06	1.9E-07	0
A5NSSSSL	60012	20004	24	25	25	63.57	3.09738642058239E-04	9.2E-08	0
AGG	163	488	43	44	44	0.13	-3.59917631441310E+07	7.8E-09	0
AIRCRAFTA	8	5	7	8	8	0.00	0.00000000000000E+00	1.3E-07	0
AIRCFTB	8	0	33	40	40	0.00	1.81497350677950E-10	0.0E+00	0
AIRPORT	84	42	17	18	18	0.06	4.79526654443640E+04	4.6E-06	0
AKIVA	2	0	9	10	10	0.00	6.16604221241779E+00	0.0E+00	0
ALJAZZAF	1000	1	22	26	26	0.07	3.74137612642612E+04	3.3E+00	0
ALLINIT	4	0	3001	32562	32562	0.33	1.67059684328824E+01	0.0E+00	2
ALLINITC	4	1	902	9404	9404	0.12	3.04961726250725E+01	1.8E-10	0
ALLINITU	4	0	9	10	10	0.00	5.74438491032073E+00	0.0E+00	0
ALLINQP	5000	2500	11	12	12	6.36	-5.48093412253060E+03	7.4E-06	0
ALSOTAME	2	1	11	12	12	0.01	8.20850000507545E-02	2.1E-12	0
ARGLINA	200	0	7	8	8	12.37	2.0000000004092E+02	0.0E+00	0
ARGLINB	200	0	16	17	17	24.21	9.96254681649218E+01	0.0E+00	0
ARGLINC	200	0	16	17	17	23.79	1.01125470515591E+02	0.0E+00	0
ARGTRIG	200	200	6	7	7	0.88	0.00000000000000E+00	3.1E-07	0
ARTIF	5002	5000	21	22	22	1.39	0.00000000000000E+00	6.5E-10	0
ARWHEAD	5000	0	10	11	11	1.37	0.00000000000000E+00	0.0E+00	0
AUG2D	20200	10000	13	14	14	7.11	1.68734617413563E+06	1.9E-05	0
AUG2DC	20200	10000	13	14	14	7.18	1.81828080638635E+06	2.4E-05	0
AUG2DCQP	20200	10000	25	26	26	6.84	6.49791052658171E+06	1.7E-05	0
AUG2DQP	20200	10000	24	25	25	6.58	6.23681185397760E+06	1.5E-05	0
AUG3D	27543	8000	9	10	10	322.63	2.45605896605563E+04	2.0E-05	0
AUG3DC	27543	8000	9	10	10	322.94	2.76536564815554E+04	7.9E-06	0
AUG3DCQP	27543	8000	17	18	18	38.25	6.15589683165849E+04	1.7E-05	0
AUG3DQP	27543	8000	17	18	18	38.19	5.42310896797573E+04	5.0E-06	0
AVGASA	8	10	13	14	14	0.00	-4.63192553239276E+00	0.0E+00	0
AVGASB	8	10	15	16	16	0.00	-4.48321934813965E+00	0.0E+00	0
AVION2	49	15	23	24	24	0.01	9.46805834368144E+07	7.6E-09	0
BARD	3	0	15	17	17	0.00	8.21487731498662E-03	0.0E+00	0
BATCH	48	73	64	66	66	0.02	2.59180328047637E+05	6.0E-04	0
BDEXP	5000	0	17	18	18	0.54	2.35302614943500E-04	0.0E+00	0
BDQRTIC	5000	0	12	13	13	8.48	2.00062568784337E+04	0.0E+00	0
BDVALUE	5002	5000	1	2	2	0.19	0.00000000000000E+00	8.0E-08	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
BDVALUES	10002	10000	23	24	24	2.71	0.00000000000000E+00	2.0E-09	0
BEALE	2	0	8	9	9	0.00	1.02390604924614E-11	0.0E+00	0
BIGGS3	6	0	13	14	14	0.01	3.31585759010000E-12	0.0E+00	0
BIGGS5	6	0	60	74	74	0.00	2.56935099166711E-12	0.0E+00	0
BIGGS6	6	0	47	57	57	0.01	1.04996129618583E-12	0.0E+00	0
BIGGSB1	5000	0	16	17	17	0.39	1.50451045691690E-02	0.0E+00	0
BIGGSC4	4	7	21	22	22	0.01	-2.44999998871839E+01	0.0E+00	0
BLOCKQP1	10010	5001	17	18	18	5.30	5.13255214310446E+00	7.9E-13	0
BLOCKQP2	10010	5001	12	13	13	4.64	-3.84524400797125E+03	2.1E-08	0
BLOCKQP3	10010	5001	16	17	17	5.08	5.89312847627678E+00	5.9E-11	0
BLOCKQP4	10010	5001	12	13	13	4.32	1.86991857517647E+01	1.2E-09	0
BLOCKQP5	10010	5001	16	17	17	5.08	5.89512008599843E+00	5.9E-11	0
BLOWEYA	4002	2002	28	30	30	1.23	-2.27802110183363E-02	7.5E-13	0
BLOWEYB	4002	2002	24	25	25	1.03	-1.52259442326461E-12	1.9E-13	0
BLOWEYC	4002	2002	104	829	829	9.45	-1.52407761983157E-02	2.9E-14	0
BOOTH	2	2	8	9	9	0.00	0.00000000000000E+00	9.4E-08	0
BOX2	3	0	1282	2287	2287	0.21	2.90017417529636E+00	0.0E+00	0
BOX3	3	0	10	11	11	0.01	1.03426656327992E-12	0.0E+00	0
BQP1VAR	1	0	10	11	11	0.00	6.26924179832541E-09	0.0E+00	0
BQPGABIM	50	0	16	17	17	0.01	-3.77148650767987E-05	0.0E+00	0
BQPGASIM	50	0	12	13	13	0.01	-5.49918823748689E-05	0.0E+00	0
BQPGAUSS	2003	0	49	50	50	0.98	-3.62577445815861E-01	0.0E+00	0
BRAINPC0	6907	6900	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
BRAINPC1	6907	6900	28	40	40	14.11	4.26476795801078E-04	2.4E-07	0
BRAINPC2	13807	13800	39	41	41	120.05	4.38721273161503E-01	9.8E-09	0
BRAINPC3	6907	6900	276	1868	1868	104.08	3.99529020086670E-01	5.2E-07	0
BRAINPC4	6907	6900	87	514	514	41.55	3.51119149547563E-01	1.4E-07	0
BRAINPC5	6907	6900	89	353	353	42.82	3.33110596314168E-01	2.4E-07	0
BRAINPC6	6907	6900	67	85	85	27.41	3.89044882359171E-01	3.2E-07	0
BRAINPC7	6907	6900	55	66	66	25.51	3.52133413237104E-01	1.3E-07	0
BRAINPC8	6907	6900	164	364	364	61.19	3.55280481259300E-01	1.2E-07	0
BRAINPC9	6907	6900	272	2102	2102	103.30	3.45182175190177E-01	7.8E-07	0
BRATU1D	5003	0	3001	3002	3002	2953.08	0.00000000000000E+00	0.0E+00	2
BRATU2D	5184	4900	7	8	8	1.86	0.00000000000000E+00	5.8E-08	0
BRATU2DT	5184	4900	11	12	12	2.73	0.00000000000000E+00	6.1E-07	0
BRATU3D	4913	3375	7	8	8	13.33	0.00000000000000E+00	2.4E-07	0
BRKMCC	2	0	7	8	8	0.01	1.69042679196814E-01	0.0E+00	0
BROWNAL	200	0	11	12	12	9.65	5.29446389020188E-02	0.0E+00	0
BROWNALE	200	200	15	16	16	1.66	0.00000000000000E+00	5.0E-08	0
BROWNBS	2	0	31	35	35	0.00	2.35172539035654E-13	0.0E+00	0
BROWNDEN	4	0	13	14	14	0.01	8.58222013688006E+04	0.0E+00	0
BROYDN3D	5000	5000	7	8	8	0.43	0.00000000000000E+00	3.2E-06	0
BROYDN7D	5000	0	77	89	89	5.99	1.72455109820668E+03	0.0E+00	0
BROYDNBD	5000	5000	3001	3135	3135	332.15	0.00000000000000E+00	1.9E+00	2
BRYBND	5000	0	10	11	11	0.98	8.31080145103653E-04	0.0E+00	0
BT1	2	1	133	1073	1073	0.01	-9.99957704740621E-01	4.3E-07	0
BT10	2	2	10	11	11	0.00	-1.00000032712778E+00	4.6E-07	0
BT11	5	3	11	12	12	0.00	8.24891501397935E-01	3.1E-07	0
BT12	5	3	11	12	12	0.00	6.18811877074434E+00	2.3E-06	0
BT13	5	1	21	22	22	0.01	1.14833825340155E-15	4.0E-05	0
BT2	3	1	17	18	18	0.00	3.25682110420063E-02	9.9E-07	0
BT3	5	3	11	12	12	0.00	4.09302293852948E+00	1.5E-07	0
BT4	3	2	9	10	10	0.00	-4.55105720570977E+01	5.1E-06	0
BT5	3	2	8	9	9	0.00	9.61715160957800E+02	8.8E-06	0
BT6	5	2	11	13	13	0.01	2.77044684907962E-01	1.2E-06	0
BT7	5	3	18	19	19	0.00	3.60379780690713E+02	3.1E-08	0
BT8	5	2	31	32	32	0.00	1.00000000001557E+00	1.6E-11	0
BT9	4	2	14	15	15	0.00	-1.00000008379831E+00	1.0E-07	0
BYRDSPHR	3	2	11	12	12	0.00	-4.68330153159412E+00	5.1E-06	0
C-RELOAD	342	284	3001	6294	6294	1373.77	0.00000000000000E+00	0.0E+00	2
CAMEL6	2	0	11	12	12	0.01	-1.03162845348988E+00	0.0E+00	0
CAMSHAPE	800	1603	216	218	218	1.96	-4.27383180456693E+00	0.0E+00	0
CANTILVR	5	1	15	16	16	0.01	1.33995623196302E+00	2.9E-07	0
CATENA	3003	1000	3001	13942	13942	103.08	-1.45496894270802E+06	3.3E-01	2
CATENARY	501	166	505	516	516	2.00	-3.48403205072728E+05	6.6E-06	0
CATMIX	2403	1600	27	28	28	1.15	-4.78537459645717E-02	3.9E-07	0
CB2	3	3	11	12	12	0.00	1.95222443909586E+00	1.1E-07	0
CB3	3	3	11	12	12	0.01	1.99999999534576E+00	1.4E-08	0
CBRATU2D	3200	2888	8	9	9	1.56	0.00000000000000E+00	2.2E-08	0
CBRATU3D	3456	2000	7	8	8	5.86	0.00000000000000E+00	3.6E-07	0
CHACONN1	3	3	11	12	12	0.01	1.95222446881525E+00	3.3E-08	0
CHACONN2	3	3	11	12	12	0.00	1.99999998871291E+00	3.0E-08	0
CHAIN	802	401	42	48	48	8.75	5.06862169477610E+00	2.4E-10	0
CHAINWOOD	4000	0	84	130	130	3.24	1.00000001636291E+00	0.0E+00	0
CHANDHEQ	100	100	13	14	14	0.45	0.00000000000000E+00	1.1E-06	0
CHANDHEU	500	500	13	14	14	62.70	0.00000000000000E+00	8.0E-07	0
CHANNEL	9600	9598	16	17	17	2.46	1.00000000000000E-16	2.0E-06	0
CHARDISO	2000	0	14	15	15	521.73	9.82011761137790E-22	0.0E+00	0
CHARDIS1	1000	499	30	31	31	141.13	8.02190604290358E-07	1.3E-17	0
CHEBYQAD	100	0	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
CHEMRCTA	5000	5000	3001	26218	26218	517.14	0.00000000000000E+00	8.8E-01	2
CHEMRCTB	5000	5000	3001	23465	23465	293.99	0.00000000000000E+00	1.5E-03	2
CHENHARK	5000	0	12	13	13	0.32	-1.99994133823588E+00	0.0E+00	0
CHNROSNB	50	0	46	57	57	0.02	1.01539842032386E-09	0.0E+00	0
CLIFF	2	0	32	33	33	0.00	1.99786613677704E-01	0.0E+00	0
CLNLBEAM	6003	4000	107	108	108	6.96	3.44876140775774E+02	2.1E-10	0
CLPLATEA	5041	0	9	10	10	0.88	-1.25920948454697E-02	0.0E+00	0
CLPLATEB	5041	0	6	7	7	0.75	-5.09439472271777E-03	0.0E+00	0
CLPLATEC	5041	0	6	7	7	0.73	-5.02018419325645E-03	0.0E+00	0
CLUSTER	2	2	11	12	12	0.01	0.00000000000000E+00	9.2E-08	0
CONGIGMZ	3	5	33	34	34	0.01	2.80000008322489E+01	1.7E-06	0
CONT5-QP	10301	10100	16	17	17	50.16	3.10023159440017E-02	4.7E-10	0
COOLHANS	9	9	3001	31786	31786	0.89	0.00000000000000E+00	2.3E-02	2
CORKSCRW	4506	3500	44	45	45	2.17	8.18973473810747E+01	1.5E-09	0
COSHFUN	6001	2000	54	73	73	2.56	-7.98576177960474E-01	4.5E-06	0
COSINE	10000	0	9	10	10	0.92	-9.99899997814029E+03	0.0E+00	0
CRAGGLVY	5000	0	15	16	16	0.82	1.68821530981925E+03	0.0E+00	0
CRESC100	6	200	1111	7924	7924	2.34	5.69503260777334E-01	7.1E-06	0
CRESC132	6	2654	3001	3129	3129	78.39	6.12859290571238E-03	3.2E-01	2
CRESC4	6	8	119	483	483	0.02	8.71897583386469E-01	3.3E-10	0
CRESC50	6	100	262	604	604	0.29	5.94075618331615E-01	1.2E-05	0
CSFI1	5	4	16	17	17	0.00	-4.90751988699124E+01	1.4E-07	0
CSFI2	5	4	17	18	18	0.00	5.50176069865518E+01	1.1E-07	0
CUBE	2	0	31	40	40	0.00	4.54543308940748E-11	0.0E+00	0
CUBENE	2	2	10	11	11	0.01	0.00000000000000E+00	2.2E-07	0
CURLY10	10000	0	14	15	15	3.37	-1.00316290190284E+06	0.0E+00	0
CURLY20	10000	0	20	25	25	10.17	-1.00316290238469E+06	0.0E+00	0
CURLY30	10000	0	18	19	19	18.85	-1.00316290241215E+06	0.0E+00	0
CVXBQP1	10000	0	14	15	15	3.68	2.25029634162754E+06	0.0E+00	0
CVXQP1	1000	500	25	26	26	1.51	1.08751545062783E+06	4.5E-08	0
CVXQP2	1000	250	16	17	17	0.60	8.20158799698210E+05	1.0E-07	0
CVXQP3	1000	750	39	40	40	2.66	1.36282975877838E+06	7.5E-09	0
DALLASL	906	667	27	28	28	0.26	-2.02604050140865E+05	6.4E-10	0
DALLASM	196	151	101	841	841	0.51	-4.81981846924345E+04	9.9E-11	0
DALLASS	46	31	29	30	30	0.01	-3.23932167767303E+04	2.4E-13	0
DECONVB	61	0	31	32	32	0.09	2.71364980274887E-03	0.0E+00	0
DECONVC	61	1	28	29	29	0.08	2.71354469402611E-03	6.2E-07	0
DECONVNE	61	40	17	36	36	0.05	0.00000000000000E+00	1.8E-06	0
DECONVU	61	0	20	28	28	0.07	1.74417565705557E-06	0.0E+00	0
DEGENLPA	20	15	35	36	36	0.01	3.06039100233747E+00	1.0E-09	0
DEGENLPB	20	15	35	36	36	0.01	-3.07312655954494E+01	2.0E-09	0
DEGENQP	50	125025	15	16	16	18.05	2.40055602856878E-04	2.7E-15	0
DEMB07	16	20	33	37	37	0.01	2.01686198086115E+02	1.1E+00	3
DEMYMALO	3	3	15	16	16	0.01	-2.99999999577334E+00	2.3E-08	0
DENSCHNA	2	0	9	10	10	0.00	9.08811805696731E-14	0.0E+00	0
DENSCHNB	2	0	8	9	9	0.00	1.94167633418997E-12	0.0E+00	0
DENSCHNC	2	0	13	14	14	0.00	1.19188344564144E-11	0.0E+00	0
DENSCHND	3	0	37	39	39	0.00	2.81736313043070E-10	0.0E+00	0
DENSCHNE	3	0	14	17	17	0.00	4.30711718265423E-14	0.0E+00	0
DENSCHNF	2	0	9	10	10	0.00	3.84048040264275E-12	0.0E+00	0
DIPIGRI	7	4	13	26	26	0.00	6.80630057484638E+02	0.0E+00	0
DISC2	29	23	89	96	96	0.03	1.56249992709542E+00	1.5E-06	0
DISCS	36	66	42	47	47	0.04	1.20000751453957E+01	4.4E-07	0
DITBERT	1133	1034	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
DIXCHLNG	10	5	26	27	27	0.00	2.47189719997351E+03	8.4E-07	0
DIXCHLNV	1000	500	483	5016	5016	1761.12	1.17538826233594E+15	4.9E-04	0
DIXMAANA	3000	0	10	11	11	0.24	1.00000000016686E+00	0.0E+00	0
DIXMAANB	3000	0	12	13	13	0.33	1.0000000000205E+00	0.0E+00	0
DIXMAANC	3000	0	13	14	14	0.38	1.0000000000239E+00	0.0E+00	0
DIXMAAND	3000	0	14	15	15	0.41	1.00000000000401E+00	0.0E+00	0
DIXMAANE	3000	0	15	16	16	0.44	1.00000000003616E+00	0.0E+00	0
DIXMAANF	3000	0	18	19	19	0.56	1.00000000000443E+00	0.0E+00	0
DIXMAANG	3000	0	20	21	21	0.60	1.00000000000062E+00	0.0E+00	0
DIXMAANH	3000	0	22	28	28	0.71	1.00000000000091E+00	0.0E+00	0
DIXMAANI	3000	0	25	26	26	0.84	1.00000000000032E+00	0.0E+00	0
DIXMAANJ	3000	0	22	23	23	0.66	1.000000000004181E+00	0.0E+00	0
DIXMAANK	15	0	17	20	20	0.01	1.00000000000013E+00	0.0E+00	0
DIXMAANL	3000	0	24	25	25	0.75	1.000000000010795E+00	0.0E+00	0
DIXON3DQ	10000	0	11	12	12	0.67	7.58775460281725E-04	0.0E+00	0
DJTL	2	0	15	81	81	0.00	-5.54120740418323E+03	0.0E+00	0
DNIEPER	61	24	27	28	28	0.01	1.87440097741041E+04	1.1E-06	0
DQDRITC	5000	0	10	11	11	0.44	2.16534166652864E-12	0.0E+00	0
DQRTIC	5000	0	37	38	38	0.63	9.99785181380045E+00	0.0E+00	0
DRCV1LQ	1225	0	270	465	465	74.97	2.19763191805690E-13	0.0E+00	0
DRCV2LQ	1225	0	312	495	495	83.28	1.10447032704816E-11	0.0E+00	0
DRCV3LQ	1225	0	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
DRCV7Y1	4489	3969	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
DRCV7Y2	4489	3969	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
DRUGDIS	6004	4000	3001	32584	32584	523.98	2.56232902628925E+00	4.7E-04	2
DRUGDISE	603	500	3001	3398	3398	43.45	3.78399335452381E+02	4.7E-02	2

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
DTOC1L	5998	3996	9	10	10	0.69	3.94304352131141E+00	6.4E-10	0
DTOC1NA	5998	3996	9	10	10	0.98	4.13886704740005E+00	2.1E-09	0
DTOC1NB	5998	3996	10	11	11	1.10	7.13884857888322E+00	1.9E-09	0
DTOC1NC	5998	3996	8	9	9	0.95	3.51993345300189E+01	4.6E-08	0
DTOC1ND	5998	3996	7	8	8	0.87	4.76027965358608E+01	9.4E-07	0
DTOC2	5998	3996	13	14	14	1.08	5.08673607967357E-01	2.4E-08	0
DTOC3	4499	2998	42	43	43	1.47	2.35216126385935E+02	1.7E-07	0
DTOC4	4499	2998	14	15	15	0.62	2.87222586453979E+00	1.2E-08	0
DTOC5	9999	4999	14	15	15	1.24	1.53508696524842E+00	6.2E-09	0
DTOC6	10001	5000	21	22	22	2.06	1.34847329179217E+05	5.5E-07	0
DUAL1	85	1	17	18	18	0.10	3.50130700066501E-02	8.1E-12	0
DUAL2	96	1	16	17	17	0.14	3.37338473719283E-02	1.5E-10	0
DUAL3	111	1	16	17	17	0.19	1.35756021769441E-01	4.8E-12	0
DUAL4	75	1	15	16	16	0.07	7.46091466718415E-01	9.4E-11	0
DUALC1	9	215	26	27	27	0.04	6.15525173632605E+03	5.0E-13	0
DUALC2	7	229	21	22	22	0.03	3.55130651973272E+03	3.3E-10	0
DUALC5	8	278	23	24	24	0.04	4.27233234389678E+02	1.8E-09	0
DUALC8	8	503	30	31	31	0.10	1.83093617366311E+04	4.7E-09	0
EDENSCH	2000	0	15	16	16	0.28	1.20032845920213E+04	0.0E+00	0
EG1	3	0	10	11	11	0.01	-1.42930674819800E+00	0.0E+00	0
EG2	1000	0	7	8	8	0.07	-9.98947393300966E+02	0.0E+00	0
EG3	1001	2000	38	39	39	0.79	1.33817633849627E-10	1.8E-15	0
EIGENA	110	110	13	14	14	0.07	0.00000000000000E+00	2.7E-08	0
EIGENA2	2550	1275	39	40	40	3446.85	5.63205796313582E-12	5.3E-12	0
EIGENACO	0	0	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
EIGENALS	110	0	30	31	31	0.44	1.34975128261250E-10	0.0E+00	0
EIGENAU	0	0	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
EIGENB	110	110	292	295	295	2.64	0.00000000000000E+00	3.2E-11	0
EIGENB2	110	55	26	28	28	0.16	4.47287384055700E-01	1.2E-09	0
EIGENBCO	110	55	59	69	69	0.67	3.91309077543043E-09	2.4E-06	0
EIGENBLS	110	0	74	94	94	0.65	1.02357575425923E-07	0.0E+00	0
EIGENC	462	462	51	52	52	20.58	0.00000000000000E+00	9.8E-10	0
EIGENC2	462	231	23	24	24	8.37	4.48998467214243E-11	1.2E-06	0
EIGENCCO	462	231	41	47	47	22.72	1.50988202447143E-09	1.6E-06	0
EIGENCLS	462	0	125	155	155	72.77	1.97734389001610E-07	0.0E+00	0
EIGMAXA	101	101	1391	1391	1391	2.53	-1.00000000000000E-16	1.1E-15	0
EIGMAXB	101	101	15	17	17	0.02	-8.70129985476135E-03	2.0E-06	0
EIGMAXC	202	202	13	14	14	0.05	-9.99999999189645E-01	5.5E-09	0
EIGMINA	101	101	3001	3002	3002	2.36	9.99992883372962E-01	1.4E-05	2
EIGMINB	101	101	10	11	11	0.03	9.67434816540597E-04	2.9E-07	0
EIGMNC	202	202	14	15	15	0.05	1.00000000001176E+00	7.1E-10	0
ELATTAR	7	102	209	233	233	0.21	1.42707993845869E-01	0.0E+00	0
ELEC	600	200	272	328	328	604.14	1.84389195688940E+04	3.5E-07	0
ENGVAL1	5000	0	9	10	10	0.51	5.54866842065732E+03	0.0E+00	0
ENGVAL2	3	0	18	21	21	0.00	5.66905138643030E-11	0.0E+00	0
EQC	9	3	3001	32832	32832	0.75	-8.12584273838016E+02	7.1E-04	2
ERRINBAR	18	9	3001	30469	30469	0.98	3.50836151246233E+02	1.3E+03	2
ERRINROS	50	0	48	75	75	0.02	3.99041539202553E+01	0.0E+00	0
EXPFIT	2	0	8	11	11	0.00	2.40510594001899E-01	0.0E+00	0
EXPFITA	5	22	22	23	23	0.00	1.13662284718041E-03	0.0E+00	0
EXPFITB	5	102	31	32	32	0.01	5.01939084334035E-03	0.0E+00	0
EXPFITC	5	502	43	44	44	0.11	2.33025822395563E-02	0.0E+00	0
EXPLIN	1200	0	12	13	13	0.05	-7.17416633097657E+07	0.0E+00	0
EXPLIN2	1200	0	12	13	13	0.05	-7.17781034423990E+07	0.0E+00	0
EXPQUAD	1200	0	54	55	55	0.40	-3.68493956543483E+09	0.0E+00	0
EXTRASIM	2	1	8	9	9	0.00	9.99999993851862E-01	2.8E-08	0
EXTROSNB	1000	0	149	161	161	1.04	5.32066680381129E-06	0.0E+00	0
FCCU	19	8	13	14	14	0.00	1.11491089885622E+01	4.3E-08	0
FEEDLOC	90	259	46	106	106	0.10	4.03458046585124E-11	1.6E-09	0
FERRISDC	2200	210	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
FLETCEV2	5000	0	1	2	2	0.25	-5.00268169802555E-01	0.0E+00	0
FLETCHCR	1000	0	3001	3033	3033	382.63	0.00000000000000E+00	0.0E+00	2
FLETCHER	4	4	14	15	15	0.00	1.95253662585003E+01	7.0E-09	0
FLOSP2TH	2883	2763	3001	3002	3002	2301.28	0.00000000000000E+00	6.4E-01	2
FLOSP2TL	2883	2763	3001	32722	32722	801.72	0.00000000000000E+00	5.9E-11	2
FLOSP2TM	2883	2763	149	160	160	54.82	0.00000000000000E+00	1.1E-10	0
FMINSRF2	5625	0	142	353	353	18.19	9.99999997372018E-01	0.0E+00	0
FMINSURF	1024	0	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
FREUROTH	5000	0	11	12	12	0.67	6.08159189046639E+05	0.0E+00	0
GASOIL	10403	10398	45	122	122	8.58	5.23659560506018E-03	4.1E-07	0
GAUSSELM	5525	14652	1783	1823	1823	1775.58	-3.19503026704615E+01	8.0E-10	0
GENHS28	10	8	9	10	10	0.01	9.27173755462904E-01	4.5E-08	0
GENHUMPS	5000	0	3001	3002	3002	2392.75	0.00000000000000E+00	0.0E+00	2
GENROSE	500	0	336	651	651	0.88	1.00000000241700E+00	0.0E+00	0
GIGOMEZ1	3	3	16	17	17	0.00	-3.00000001121131E+00	1.1E-07	0
GIGOMEZ2	3	3	11	12	12	0.00	1.95222443815182E+00	1.0E-07	0
GIGOMEZ3	3	3	10	11	11	0.01	1.99999995451748E+00	2.0E-07	0
GILBERT	0	0	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
GLIDER	5214	4808	3001	3007	3007	339.06	-5.45800101034259E+02	2.3E+02	2
GMNCASE1	175	300	15	16	16	0.96	2.66972989651402E-01	0.0E+00	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
GMNCASE2	175	1050	13	14	14	0.97	-9.94444451896482E-01	0.0E+00	0
GMNCASE3	175	1050	13	14	14	0.94	1.52514869286996E+00	1.0E-09	0
GMNCASE4	175	350	30	31	31	2.03	5.94687450966448E+03	1.2E-06	0
GOFFIN	51	50	15	16	16	0.05	2.63076234292038E-07	0.0E+00	0
GOTTFR	2	2	10	13	13	0.00	0.00000000000000E+00	2.0E-07	0
GOULDQP2	19999	9999	9	10	10	1.81	1.59795477941704E-12	2.3E-12	0
GOULDQP3	19999	9999	9	10	10	2.30	5.62403632421303E-05	6.7E-12	0
GPP	1000	1998	26	43	43	392.91	2.31918115611994E+05	8.6E-05	0
GRIDNETA	7564	3844	20	21	21	2.65	4.77981950822583E+02	3.7E-07	0
GRIDNETB	7564	3844	13	14	14	1.79	1.27614651802840E+02	1.1E-06	0
GRIDNETC	7564	3844	29	30	30	3.71	1.61872082317086E+02	4.3E-08	0
GRIDNETD	7564	3844	22	23	23	4.31	5.70712002450301E+02	3.2E-08	0
GRIDNETE	7564	3844	13	14	14	2.69	2.06480473312889E+02	1.1E-06	0
GRIDNETF	7564	3844	27	28	28	5.20	2.43544191313247E+02	2.8E-08	0
GRIDNETG	7564	3844	23	24	24	4.62	6.15785535676886E+02	3.2E-07	0
GRIDNETH	7564	3844	13	14	14	2.74	2.06480473302033E+02	1.1E-06	0
GRIDNETI	7564	3844	27	28	28	5.36	2.43544142976732E+02	2.7E-08	0
GROWTHLS	3	0	73	95	95	0.01	1.00404058577058E+00	0.0E+00	0
GULF	3	0	27	34	34	0.02	1.08842178126427E-13	0.0E+00	0
HADAMALS	400	0	10	11	11	4.70	7.57174756661288E+03	0.0E+00	0
HADAMARD	401	1010	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
HAGER1	5001	2500	18	19	19	0.79	8.80797080684881E-01	7.9E-08	0
HAGER2	5001	2500	16	17	17	0.90	4.32082256964941E-01	2.3E-07	0
HAGER3	5001	2500	16	17	17	1.00	1.40961252813738E-01	2.0E-07	0
HAGER4	5001	2500	3001	3002	3002	2994.90	0.00000000000000E+00	0.0E+00	2
HAIFAL	343	8958	114	115	115	21.84	-1.28000004188234E+01	4.2E-07	0
HAIFAM	99	150	3001	31523	31523	6.56	-4.50003626925284E+01	2.2E-05	2
HAIFAS	13	9	12	13	13	0.00	-4.50000063624265E-01	2.2E-07	0
HAIRY	2	0	40	44	44	0.01	2.00000000000000E-15	0.0E+00	0
HALDMADS	6	42	25	31	31	0.00	3.26427231435854E-02	0.0E+00	0
HANGING	3600	2330	27	28	28	2.28	-3.14740586547672E+04	1.1E-04	0
HARKERP2	500	0	39	40	40	378.88	-4.99998377442711E-01	0.0E+00	0
HART6	6	0	12	13	13	0.00	-3.32288689158932E+00	0.0E+00	0
HATFLDA	4	0	8	9	9	0.00	1.62036094670296E-15	0.0E+00	0
HATFLDB	4	0	11	12	12	0.00	5.57281053567288E-03	0.0E+00	0
HATFLDC	25	0	8	9	9	0.00	1.73666053404388E-17	0.0E+00	0
HATFLDD	3	0	22	24	24	0.01	6.61832240611894E-08	0.0E+00	0
HATFLDE	3	0	21	23	23	0.01	5.12039091268448E-07	0.0E+00	0
HATFLDF	3	3	10	14	14	0.00	0.00000000000000E+00	4.8E-07	0
HATFLDG	25	25	15	17	17	0.01	0.00000000000000E+00	5.3E-08	0
HATFLDH	4	7	16	17	17	0.00	-2.44999998153189E+01	0.0E+00	0
HEART6	6	6	79	328	328	0.01	0.00000000000000E+00	6.7E-10	0
HEART6LS	6	0	3001	3696	3696	5.62	0.00000000000000E+00	0.0E+00	2
HEART8	8	8	24	40	40	0.01	0.00000000000000E+00	2.7E-07	0
HEART8LS	8	0	54	109	109	0.01	2.47070454320074E-09	0.0E+00	0
HELIX	3	0	11	12	12	0.00	3.32354841678669E-12	0.0E+00	0
HELSEBY	1408	1399	3001	4717	4717	537.33	0.00000000000000E+00	0.0E+00	2
HET-Z	2	1002	48	49	49	0.15	1.00000001281794E+00	0.0E+00	0
HIELOW	3	0	8	11	11	0.19	8.74165432123595E+02	0.0E+00	0
HILBERTA	2	0	8	9	9	0.00	7.78711524105274E-12	0.0E+00	0
HILBERTB	10	0	9	10	10	0.00	3.84700522549531E-14	0.0E+00	0
HIMMELBA	2	2	8	9	9	0.00	0.00000000000000E+00	2.5E-06	0
HIMMELBB	2	0	9	10	10	0.00	2.31451814084178E-09	0.0E+00	0
HIMMELBC	2	2	8	9	9	0.00	0.00000000000000E+00	1.4E-07	0
HIMMELBE	3	3	9	10	10	0.01	0.00000000000000E+00	5.8E-08	0
HIMMELBF	4	0	68	82	82	0.01	3.18572470166051E+02	0.0E+00	0
HIMMELBG	2	0	8	10	10	0.00	1.80160247039653E-15	0.0E+00	0
HIMMELBH	2	0	8	9	9	0.01	-9.99999999999533E-01	0.0E+00	0
HIMMELBI	100	12	28	29	29	0.02	-1.73556943010324E+03	0.0E+00	0
HIMMELBJ	45	14	3001	3002	3002	78.06	0.00000000000000E+00	0.0E+00	2
HIMMELBK	24	14	20	23	23	0.01	5.18145150792221E-02	2.3E-06	0
HIMMELP1	2	0	13	14	14	0.00	-6.20539355338257E+01	0.0E+00	0
HIMMELP2	2	1	18	21	21	0.00	-6.20539355338257E+01	0.0E+00	0
HIMMELP3	2	2	16	23	23	0.00	-5.90131774717871E+01	0.0E+00	0
HIMMELP4	2	3	21	43	43	0.00	-5.90131775717148E+01	0.0E+00	0
HIMMELP5	2	3	101	194	194	0.01	-5.90131776819248E+01	0.0E+00	0
HIMMELP6	2	5	25	30	30	0.01	-5.90131774197110E+01	0.0E+00	0
HONG	4	1	884	9595	9595	0.08	2.25710873635698E+01	1.8E-12	0
HS1	2	0	30	34	34	0.00	4.35373382387654E-11	0.0E+00	0
HS10	2	1	15	16	16	0.00	-1.00000000451897E+00	9.0E-09	0
HS100	7	4	13	26	26	0.01	6.80630057484638E+02	0.0E+00	0
HS100LNP	7	2	11	12	12	0.00	6.80630057215434E+02	1.4E-07	0
HS100MOD	7	4	13	28	28	0.00	6.78679636212008E+02	1.4E-06	0
HS101	7	5	500	3680	3680	0.20	1.80976462163315E+03	2.2E-08	0
HS102	7	5	55	155	155	0.02	9.11880566300797E+02	3.5E-09	0
HS103	7	5	54	91	91	0.01	5.43667961800100E+02	0.0E+00	0
HS104	8	5	14	15	15	0.00	3.95117405606666E+00	1.2E-07	0
HS105	8	1	18	19	19	0.05	1.04461171388226E+03	0.0E+00	0
HS106	8	6	24	27	27	0.01	7.04924802445224E+03	1.6E-02	0
HS107	9	6	15	16	16	0.00	5.05501167742215E+03	2.1E-08	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
HS108	9	13	23	24	24	0.00	-8.66025630879304E-01	3.4E-07	0
HS109	9	10	33	52	52	0.01	5.36540738621267E+03	1.9E-04	0
HS11	2	1	13	14	14	0.00	-8.49846423150296E+00	2.7E-09	0
HS110	200	0	1	2	2	0.27	-1.47809022991997E+38	0.0E+00	0
HS111	10	3	14	16	16	0.01	-4.77610968104408E+01	2.9E-07	0
HS111LNP	10	3	17	18	18	0.01	-4.77611378076238E+01	2.2E-06	0
HS112	10	3	3001	3002	3002	12.56	0.00000000000000E+00	0.0E+00	2
HS113	10	8	19	33	33	0.00	2.43062091779433E+01	2.1E-08	0
HS114	10	11	24	31	31	0.01	-1.76880696552046E+03	1.6E-06	0
HS116	13	14	29	31	31	0.01	9.75875114584691E+01	0.0E+00	0
HS117	15	5	20	23	23	0.00	3.23486791777349E+01	0.0E+00	0
HS118	15	17	17	18	18	0.01	6.64820452348059E+02	0.0E+00	0
HS119	16	8	29	30	30	0.00	2.44899699094115E+02	3.1E-13	0
HS12	2	1	15	42	42	0.01	-3.00000000470418E+01	9.4E-08	0
HS13	2	1	3001	32612	32612	0.14	9.98316853456271E-01	6.0E-10	2
HS14	2	2	11	12	12	0.00	1.39346495999101E+00	1.3E-08	0
HS15	2	2	30	31	31	0.00	3.06500005545805E+02	0.0E+00	0
HS16	2	2	18	19	19	0.00	2.50000004172004E-01	0.0E+00	0
HS17	2	2	29	31	31	0.00	1.00000001654449E+00	0.0E+00	0
HS18	2	2	15	16	16	0.00	5.00000000166686E+00	0.0E+00	0
HS19	2	2	17	18	18	0.00	-6.96181400836041E+03	1.1E-06	0
HS2	2	0	19	20	20	0.00	4.94122933739208E+00	0.0E+00	0
HS20	2	3	23	24	24	0.00	4.01987302548118E+01	0.0E+00	0
HS21	2	1	12	13	13	0.01	-9.99599998890451E+01	0.0E+00	0
HS21MOD	7	1	19	20	20	0.00	-9.59599974874315E+01	0.0E+00	0
HS22	2	2	9	10	10	0.00	1.00000003896283E+00	9.8E-09	0
HS23	2	5	14	16	16	0.01	2.00000001950167E+00	0.0E+00	0
HS24	2	3	14	15	15	0.00	-1.00000005507275E+00	0.0E+00	0
HS25	3	0	22	23	23	0.02	7.42950627368355E-08	0.0E+00	0
HS26	3	1	33	34	34	0.00	8.23707900155517E-10	5.5E-09	0
HS268	5	5	26	27	27	0.01	2.13221937883645E-08	0.0E+00	0
HS27	3	1	15	16	16	0.01	3.99999862993647E-02	3.4E-07	0
HS28	3	1	9	10	10	0.01	9.76601467498159E-16	1.4E-09	0
HS29	3	1	13	32	32	0.00	-2.26274172820539E+01	4.0E-07	0
HS3	2	0	11	12	12	0.01	7.15747969492166E-09	0.0E+00	0
HS30	3	1	9	10	10	0.00	1.00000004213865E+00	0.0E+00	0
HS31	3	1	15	18	18	0.00	6.00000000935763E+00	0.0E+00	0
HS32	3	2	23	25	25	0.01	1.00000002695371E+00	3.2E-17	0
HS33	3	2	11	12	12	0.01	-4.58578639148161E+00	0.0E+00	0
HS34	3	2	14	15	15	0.01	-8.34032404918624E-01	0.0E+00	0
HS35	3	1	10	11	11	0.00	1.11111118733425E-01	0.0E+00	0
HS35I	3	1	10	11	11	0.00	1.11111135264911E-01	0.0E+00	0
HS35MOD	3	1	22	25	25	0.00	2.500000016187660E-01	5.2E-15	0
HS36	3	1	15	20	20	0.00	-3.29999986144969E+03	0.0E+00	0
HS37	3	2	11	12	12	0.01	-3.45599998495899E+03	0.0E+00	0
HS38	4	0	11	14	14	0.00	7.87241119943270E+00	0.0E+00	0
HS39	4	2	14	15	15	0.00	-1.00000008379831E+00	1.0E-07	0
HS3MOD	2	0	12	13	13	0.00	3.07543040395743E-09	0.0E+00	0
HS4	2	0	8	9	9	0.00	2.66666667672018E+00	0.0E+00	0
HS40	4	3	8	9	9	0.00	-2.50000099866593E-01	1.1E-07	0
HS41	4	1	15	16	16	0.01	1.92592593263344E+00	7.7E-09	0
HS42	4	2	8	9	9	0.01	1.38578609240799E+01	8.3E-07	0
HS43	4	3	15	42	42	0.00	-4.40000107746039E+01	3.8E-06	0
HS44	4	6	15	16	16	0.00	-1.49999998427692E+01	0.0E+00	0
HS44NEW	4	6	17	18	18	0.01	-1.49999999726296E+01	0.0E+00	0
HS45	5	0	12	13	13	0.00	1.00000002421454E+00	0.0E+00	0
HS46	5	2	29	30	30	0.01	6.05344079707609E-08	8.3E-09	0
HS47	5	3	43	55	55	0.00	-2.67141777301434E-02	5.5E-08	0
HS48	5	2	9	10	10	0.00	5.53453232196885E-14	8.5E-09	0
HS49	5	2	88	89	89	0.01	4.94938616684945E-08	5.6E-16	0
HS5	2	0	10	11	11	0.00	-1.91322295498104E+00	0.0E+00	0
HS50	5	3	16	17	17	0.01	7.65677519299043E-15	1.6E-14	0
HS51	5	3	7	8	8	0.00	1.41461365039219E-11	3.7E-07	0
HS52	5	3	10	11	11	0.00	5.32664714409088E+00	1.0E-07	0
HS53	5	3	11	12	12	0.00	4.09302324122020E+00	5.5E-09	0
HS54	6	1	59	176	176	0.01	-8.26823862966131E-01	4.5E-13	0
HS55	6	6	10	11	11	0.00	6.3333332409249E+00	2.6E-08	0
HS56	7	4	20	21	21	0.00	-3.45600151148166E+00	1.0E-06	0
HS57	2	1	16	17	17	0.00	2.84596702179866E-02	0.0E+00	0
HS59	2	3	22	27	27	0.00	-7.80278938143432E+00	0.0E+00	0
HS6	2	1	10	11	11	0.00	1.03938736198918E-17	1.3E-06	0
HS60	3	1	9	10	10	0.01	3.25682006502250E-02	3.4E-08	0
HS61	3	2	10	11	11	0.00	-1.43646144797746E+02	1.1E-06	0
HS62	3	1	13	14	14	0.00	-2.62725146481685E+04	3.1E-11	0
HS63	3	2	8	9	9	0.00	9.61715151404446E+02	1.6E-05	0
HS64	3	1	26	27	27	0.00	6.29984229652465E+03	5.8E-08	0
HS65	3	1	19	20	20	0.01	9.53528856587750E-01	0.0E+00	0
HS66	3	2	14	15	15	0.01	5.18163261815307E-01	7.4E-08	0
HS68	4	2	34	48	48	0.00	-9.20425145183511E-01	1.1E-07	0
HS69	4	2	15	17	17	0.01	-9.56712887883429E+02	2.4E-08	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
HS7	2	1	12	13	13	0.00	-1.73205183737021E+00	3.6E-06	0
HS70	4	1	19	21	21	0.01	1.87043669177674E-01	0.0E+00	0
HS71	4	2	13	14	14	0.00	1.70140172543184E+01	1.0E-07	0
HS72	4	2	19	26	26	0.00	7.27679314929377E+02	1.2E-09	0
HS73	4	3	18	21	21	0.00	2.98943787741944E+01	1.2E-10	0
HS74	4	5	14	15	15	0.00	5.12649810105394E+03	1.1E-06	0
HS75	4	5	16	17	17	0.00	5.17441277549779E+03	1.0E-06	0
HS76	4	3	11	12	12	0.01	-4.68181813199866E+00	0.0E+00	0
HS76I	4	3	11	12	12	0.00	-4.68181814304153E+00	0.0E+00	0
HS77	5	2	12	13	13	0.00	2.41505124158555E-01	4.7E-08	0
HS78	5	3	7	8	8	0.00	-2.91970341562870E+00	3.5E-06	0
HS79	5	3	7	8	8	0.00	7.87770429450573E-02	6.2E-06	0
HS8	2	2	8	9	9	0.01	-1.00000000000000E-16	3.4E-07	0
HS80	5	3	9	10	10	0.00	5.39498450578664E-02	4.9E-08	0
HS81	5	3	16	17	17	0.01	5.39498464929773E-02	2.3E-08	0
HS83	5	3	13	14	14	0.00	-3.06655394499426E+04	1.3E-06	0
HS84	5	3	21	37	37	0.00	-5.28033507868331E+06	2.9E-09	0
HS86	5	10	13	14	14	0.00	-3.23486778319795E+01	0.0E+00	0
HS88	2	1	27	28	28	0.03	1.36265680845962E+00	6.1E-12	0
HS89	3	1	28	32	32	0.04	1.36265681218544E+00	2.6E-12	0
HS9	2	1	8	9	9	0.00	-4.99999996739892E-01	9.9E-08	0
HS90	4	1	29	31	31	0.07	1.36265681365066E+00	1.2E-12	0
HS91	5	1	28	29	29	0.09	1.36265681115263E+00	3.5E-12	0
HS92	6	1	23	24	24	0.11	1.36265681194214E+00	2.8E-12	0
HS93	6	2	12	13	13	0.01	1.35075963173271E+02	4.6E-08	0
HS95	6	4	15	17	17	0.00	1.56195434614702E-02	0.0E+00	0
HS96	6	4	18	22	22	0.00	1.56195781991239E-02	0.0E+00	0
HS97	6	4	17	19	19	0.00	4.07124640175952E+00	1.6E-10	0
HS98	6	4	45	94	94	0.01	3.13580914126768E+00	0.0E+00	0
HS99	7	2	17	18	18	0.01	-8.31079891513453E+08	1.5E-04	0
HS99EXP	31	21	1222	1241	1241	0.39	-1.26000657418002E+12	1.1E-01	0
HUBFIT	2	1	12	13	13	0.00	1.68934998318771E-02	0.0E+00	0
HUES-MOD	5000	2	204	205	205	4.15	3.48244717166258E+07	4.8E-04	0
HUESTIS	5000	2	776	777	777	13.27	1.74122311795643E+11	7.2E-04	0
HUMPS	2	0	120	150	150	0.00	1.71563913902678E-13	0.0E+00	0
HVYCRASH	4004	3000	3001	5687	5687	273.13	-2.17844499999928E-01	6.2E-08	2
HYDC20LS	99	0	41	74	74	0.11	2.19400829575208E+01	0.0E+00	0
HYDCAR20	99	99	3001	3021	3021	207.98	0.00000000000000E+00	0.0E+00	2
HYDCAR6	29	29	3001	3047	3047	54.64	0.00000000000000E+00	0.0E+00	2
HYDR0ELL	1009	1008	3001	27511	27511	135.68	0.00000000000000E+00	0.0E+00	2
HYDR0ELM	505	504	34	35	35	0.12	-3.58201548043464E+06	0.0E+00	0
HYDR0ELS	169	168	27	28	28	0.04	-3.58226828524460E+06	0.0E+00	0
HYPCIR	2	2	8	9	9	0.00	0.00000000000000E+00	2.6E-08	0
INTEGREQ	502	500	6	7	7	16.99	0.00000000000000E+00	2.3E-08	0
JANNSON3	20000	3	9	10	10	6.32	1.99985182056031E+04	2.3E-07	0
JANNSON4	10000	2	13	17	17	1.32	9.80197041839636E+03	2.6E-07	0
JENSMP	2	0	11	12	12	0.00	1.24362182356204E+02	0.0E+00	0
JIMACK	3549	0	19	20	20	82.91	8.66793295748349E-01	0.0E+00	0
JNLBRNG1	10000	0	24	25	25	4.90	-1.80559731442667E-01	0.0E+00	0
JNLBRNG2	10000	0	22	23	23	4.53	-4.14859225179560E+00	0.0E+00	0
JNLBRNGA	10000	0	22	23	23	4.30	-2.71079603422403E-01	0.0E+00	0
JNLBRNGB	10000	0	21	22	22	4.11	-6.30057189055440E+00	0.0E+00	0
KISSING	127	903	1140	1143	1143	23.14	8.44642979625580E-01	6.6E-06	0
KISSING2	100	625	498	3031	3031	4.48	6.49255046857663E+00	1.9E-19	0
KIWCRESC	3	2	14	15	15	0.00	-1.94430914798527E-09	4.7E-09	0
KOWOSB	4	0	10	12	12	0.00	3.07800950677141E-04	0.0E+00	0
KSIP	20	1001	42	43	43	0.76	5.75797937184102E-01	0.0E+00	0
KTMODEL	726	450	3001	33002	33002	29.45	0.00000000000000E+00	1.1E-11	2
LAKES	90	78	266	267	267	0.17	3.50552804649964E+05	5.3E-05	0
LAUNCH	25	28	42	76	76	0.02	1.06644914494406E+01	7.1E-05	0
LCH	3000	1	31	32	32	2176.94	-4.34194396515481E+00	8.5E-09	0
LEAKNET	156	153	3001	4212	4212	63.68	0.00000000000000E+00	0.0E+00	2
LIARWHD	5000	0	16	17	17	0.75	1.72152806022291E-08	0.0E+00	0
LIN	4	2	3001	3002	3002	5.31	0.00000000000000E+00	0.0E+00	2
LINSPANH	97	33	14	15	15	0.01	-7.70000000002280E+01	3.2E-10	0
LINVERSE	1999	0	239	241	241	5.84	6.81004633833248E+02	0.0E+00	0
LISWET1	2002	2000	69	70	70	1.00	7.22182954618337E+00	5.1E-12	0
LISWET10	2002	2000	148	149	149	2.18	9.89666591951272E+00	0.0E+00	0
LISWET11	2002	2000	90	91	91	1.30	9.90550570263751E+00	0.0E+00	0
LISWET12	2002	2000	361	362	362	5.26	3.47520919062710E+02	0.0E+00	0
LISWET2	2002	2000	14	15	15	0.25	4.99805897374769E+00	4.0E-08	0
LISWET3	2002	2000	15	16	16	0.26	4.99785705757429E+00	1.0E-08	0
LISWET4	2002	2000	19	20	20	0.31	4.99787440827845E+00	0.0E+00	0
LISWET5	2002	2000	19	20	20	0.31	4.99790115659393E+00	0.0E+00	0
LISWET6	2002	2000	14	15	15	0.24	4.99793365765697E+00	6.6E-09	0
LISWET7	2002	2000	85	86	86	1.30	9.98948818469146E+01	3.1E-12	0
LISWET8	2002	2000	365	366	366	5.53	1.43132502065173E+02	0.0E+00	0
LISWET9	2002	2000	497	498	498	7.26	3.92926622028335E+02	0.0E+00	0
LMINSURF	5625	0	3001	3002	3002	375.95	3.01747456733179E+01	0.0E+00	2
LOADBAL	31	31	20	21	21	0.01	4.52851928462344E-01	6.9E-15	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
LOGHAIRY	2	0	3	4	4	0.00	1.28819817296374E+01	0.0E+00	0
LOGROS	2	0	32	45	45	0.00	8.03329412903333E-01	0.0E+00	0
LOOTSMA	3	2	3001	32538	32538	0.21	7.85178015213595E+00	0.0E+00	2
LOTSCHD	12	7	19	20	20	0.00	2.39841583713656E+03	5.2E-07	0
LSNNDDOC	5	4	21	22	22	0.01	1.23112449927090E+02	2.8E-13	0
LSQFIT	2	1	12	13	13	0.01	3.37870007166845E-02	0.0E+00	0
LUKVLE1	10000	9998	16	17	17	3.44	6.23242652487997E+00	1.0E-04	0
LUKVLE10	10000	9998	16	17	17	2.95	3.53510492447457E+03	1.8E-05	0
LUKVLE11	9998	6664	14	15	15	1.73	3.99242552475785E-04	5.2E-10	0
LUKVLE12	9997	7497	60	62	62	7.52	1.92816777529839E+05	4.4E-16	0
LUKVLE13	9998	6664	24	25	25	3.17	5.97922555872209E+04	6.9E-08	0
LUKVLE14	9998	6664	83	84	84	9.66	3.13797788334077E+08	2.0E-03	0
LUKVLE15	9997	7497	3001	3308	3308	402.60	8.69372799126208E+06	1.2E+01	2
LUKVLE16	9997	7497	3001	3002	3002	392.42	7.91963025666909E+03	4.9E-01	2
LUKVLE17	9997	7497	3001	3002	3002	379.23	7.15041467310888E+04	5.9E-01	2
LUKVLE18	9997	7497	3001	11458	11458	509.30	1.12444719772258E+04	8.0E-01	2
LUKVLE3	10000	2	15	16	16	1.31	2.75865837956687E+01	2.7E-09	0
LUKVLE5	10002	9996	24	27	27	6.10	2.63928374227529E+00	3.7E-07	0
LUKVLE6	9999	4999	55	56	56	10.88	6.28644068011770E+05	6.2E-05	0
LUKVLE7	10000	4	19	20	20	1.39	-2.16507130084411E+03	5.3E-06	0
LUKVLE8	10000	9998	94	95	95	17.65	1.00471964486125E+06	9.1E-07	0
LUKVLE9	10000	6	32	35	35	2.02	1.00015835010069E+03	3.9E-08	0
LUKVL11	10000	9998	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
LUKVL110	10000	9998	28	29	29	4.69	3.53511272321955E+03	0.0E+00	0
LUKVL111	9998	6664	22	23	23	2.38	1.63986033331998E-05	0.0E+00	0
LUKVL112	9997	7497	99	133	133	11.10	5.55067042531694E-10	0.0E+00	0
LUKVL113	9998	6664	17	18	18	1.78	1.32185961518874E+02	0.0E+00	0
LUKVL114	9998	6664	37	43	43	3.77	1.56457321466020E+04	0.0E+00	0
LUKVL115	9997	7497	103	148	148	10.09	1.90198045909595E-09	0.0E+00	0
LUKVL116	9997	7497	21	24	24	2.33	2.96855145560832E+03	0.0E+00	0
LUKVL117	9997	7497	25	46	46	2.85	7.80510514790384E+02	0.0E+00	0
LUKVL118	9997	7497	38	60	60	4.37	1.28004810167468E-05	0.0E+00	0
LUKVL13	10000	2	21	47	47	2.00	1.15775417331857E+01	0.0E+00	0
LUKVL15	10002	9996	48	49	49	10.64	5.26801446567496E-01	1.1E-17	0
LUKVL16	9999	4999	45	47	47	8.79	6.28644060643542E+05	1.1E-04	0
LUKVL17	10000	4	18	19	19	1.37	-2.16840429157156E+03	3.4E-08	0
LUKVL18	10000	9998	74	75	75	13.48	1.00470677830145E+06	3.7E-07	0
LUKVL19	10000	6	16	25	25	1.05	9.98933162179266E+02	0.0E+00	0
MADSEN	3	6	24	26	26	0.00	6.16432379051853E-01	1.9E-07	0
MADSSCHJ	201	398	27	28	28	5.54	-4.99213411960249E+03	2.2E-04	0
MAKELA1	3	2	14	16	16	0.00	-1.41421356786801E+00	2.2E-08	0
MAKELA2	3	3	12	13	13	0.00	7.19999993395739E+00	1.1E-07	0
MAKELA3	21	20	17	18	18	0.00	3.21575893035943E-08	0.0E+00	0
MAKELA4	21	40	13	14	14	0.01	1.02049471882867E-07	0.0E+00	0
MANCINO	100	0	18	24	24	4.18	1.15647880934175E-01	0.0E+00	0
MANNE	6000	4000	3001	29699	29699	262.06	1.81631999611516E+00	1.7E-01	2
MARATOS	2	1	7	8	8	0.00	-1.00000017740808E+00	3.5E-07	0
MARATOSB	2	0	3001	3113	3113	0.68	0.00000000000000E+00	0.0E+00	2
MARINE	11215	11192	16	17	17	9.29	5.53181724551690E+09	3.7E+04	5
MATRIX2	6	2	25	26	26	0.00	3.27105960683017E-08	0.0E+00	0
MAXLIKA	8	0	26	28	28	0.07	1.13630729822465E+03	0.0E+00	0
MCCORMCK	5000	0	8	9	9	0.47	-4.56658053574702E+03	0.0E+00	0
MDHOLE	2	0	73	82	82	0.01	3.39700711991669E-14	0.0E+00	0
METHANB8	31	31	3001	3071	3071	45.28	0.00000000000000E+00	0.0E+00	2
METHANL8	31	31	3001	3033	3033	51.86	0.00000000000000E+00	0.0E+00	2
METHANOL	12005	11997	27	32	32	8.86	9.02231260833225E-03	9.9E-06	0
MEXHAT	2	0	27	30	30	0.00	-4.00099837160832E-02	0.0E+00	0
MEYER3	3	0	158	205	205	0.01	9.21458003353037E+01	0.0E+00	0
MIFFLIN1	3	2	9	10	10	0.00	-9.99999964678129E-01	0.0E+00	0
MIFFLIN2	3	2	13	14	14	0.00	-1.00000001376165E+00	1.1E-07	0
MINC44	1113	1032	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
MINMAXBD	5	20	27	43	43	0.00	1.15706440066659E+02	5.0E-08	0
MINMAXRB	3	4	13	14	14	0.00	1.45439469235275E-08	1.2E-06	0
MINPERM	1113	1033	19	20	20	31.18	3.62877316544423E-04	7.6E-10	0
MINSURF	64	0	9	10	10	0.01	1.00000000170000E+00	0.0E+00	0
MINSURFO	5306	0	258	480	480	28.44	2.50700527602019E+00	0.0E+00	0
MISTAKE	9	13	15	16	16	0.00	-1.00000001630967E+00	1.8E-08	0
MODBEALE	20000	0	11	12	12	3.81	1.52780335638188E-07	0.0E+00	0
MOREBV	5000	0	4	5	5	0.26	1.12558937546431E-10	0.0E+00	0
MOSARQP1	2500	700	12	13	13	0.21	-3.82135571861746E+03	0.0E+00	0
MOSARQP2	2500	700	9	10	10	0.17	-5.05257925333625E+03	0.0E+00	0
MRIBASIS	36	55	39	54	54	0.03	1.82179000036022E+01	3.7E-06	0
MSQRTA	1024	1024	13	14	14	70.57	0.00000000000000E+00	2.6E-07	0
MSQRTALS	1024	0	18	22	22	230.19	1.78944020187392E-04	0.0E+00	0
MSQRTB	1024	1024	13	14	14	63.70	0.00000000000000E+00	5.4E-08	0
MSQRTBLS	1024	0	15	19	19	187.09	1.28596315404198E-03	0.0E+00	0
MSS1	90	73	223	229	229	1.12	-1.60000000030775E+01	4.3E-10	0
MSS2	756	703	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
MSS3	2070	1981	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
MWRIGHT	5	3	11	12	12	0.00	2.49788077303122E+01	2.0E-07	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
NCB20	5010	0	88	98	98	26.35	-1.45570686316494E+03	0.0E+00	0
NCB20B	5000	0	8	10	10	3.13	7.35130060564906E+03	0.0E+00	0
NCVXBQP1	10000	0	665	666	666	476.48	-1.98537048525998E+10	0.0E+00	0
NCVXBQP2	10000	0	436	437	437	320.43	-1.33067125162406E+10	0.0E+00	0
NCVXBQP3	10000	0	256	257	257	179.45	-6.44902362465987E+09	0.0E+00	0
NCVXQP1	1000	500	414	415	415	84.77	-7.15916552560519E+07	1.1E-08	0
NCVXQP2	1000	500	202	203	203	40.87	-5.78137879256665E+07	2.8E-08	0
NCVXQP3	1000	500	144	145	145	29.04	-3.11851240733332E+07	5.1E-12	0
NCVXQP4	1000	250	393	394	394	46.42	-9.39787336898484E+07	5.6E-07	0
NCVXQP5	1000	250	203	204	204	23.72	-6.63030783752695E+07	9.1E-11	0
NCVXQP6	1000	250	129	130	130	15.83	-3.51534921353555E+07	3.1E-13	0
NCVXQP7	1000	750	459	460	460	108.30	-4.35242620593632E+07	3.1E-07	0
NCVXQP8	1000	750	184	185	185	40.53	-3.04572475823482E+07	2.0E-09	0
NCVXQP9	1000	750	110	111	111	24.22	-2.15703254568748E+07	6.6E-09	0
NGONE	200	5048	239	252	252	13.29	-6.36936455631659E-01	2.4E-06	0
NLM SURF	5625	0	3001	3002	3002	364.61	8.03523253265747E+03	0.0E+00	2
NOBNDTOR	5476	0	19	20	20	1.76	-4.49920780691906E-01	0.0E+00	0
NONCVXU2	1000	0	304	495	495	150.21	2.31694082505815E+03	0.0E+00	0
NONCVXUN	5000	0	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
NONDIA	5000	0	7	8	8	0.45	9.43087896898215E-07	0.0E+00	0
NONDQUAR	5000	0	24	25	25	3.97	2.07733866853473E-11	0.0E+00	0
NONMSQRT	1024	0	378	528	528	32.39	8.99054235136610E+01	0.0E+00	0
NONSCOMP	5000	0	23	25	25	0.67	1.56901917336935E-05	0.0E+00	0
NUFFIELD	940	5000	3001	3012	3012	2768.37	0.00000000000000E+00	0.0E+00	2
OBSTCLAE	10000	0	36	37	37	6.93	1.88649256836194E+00	0.0E+00	0
OBSTCLAL	10000	0	36	37	37	6.97	1.88649772035635E+00	0.0E+00	0
OBSTCLBL	10000	0	14	15	15	3.04	7.27236932485796E+00	0.0E+00	0
OBSTCLBM	10000	0	14	15	15	3.05	7.27226856250145E+00	0.0E+00	0
OBSTCLBU	10000	0	14	15	15	3.07	7.27226883261233E+00	0.0E+00	0
ODC	5184	0	76	77	77	7.97	-1.13717968999582E-02	0.0E+00	0
ODFITS	10	6	14	15	15	0.00	-2.38002677545449E+03	5.3E-08	0
ODNAMUR	0	0	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
OET1	3	1002	14	15	15	0.07	5.38243399425885E-01	0.0E+00	0
OET2	3	1002	174	175	175	0.58	8.71596392749309E-02	0.0E+00	0
OET3	4	1002	24	25	25	0.11	4.50614722953664E-03	0.0E+00	0
OET4	4	1002	41	44	44	0.22	4.29545059924221E-03	0.0E+00	0
OET5	5	1002	73	76	76	0.39	2.65009018923159E-03	2.9E-06	0
OET6	5	1002	140	141	141	0.98	2.06977312576588E-03	0.0E+00	0
OET7	7	1002	751	773	773	8.48	2.06972963880221E-03	3.4E-07	0
OPTCDEG2	4502	3000	102	103	103	3.02	2.27705176415962E+02	2.9E-07	0
OPTCDEG3	4502	3000	57	58	58	1.71	4.57906221919889E+01	2.0E-07	0
OPTCNTRL	32	20	26	27	27	0.01	5.49999894832357E+02	7.2E-07	0
OPTCTRL3	4502	3000	116	117	117	3.58	7.44646259278328E+04	1.1E-06	0
OPTCTRL6	4502	3000	116	117	117	3.62	7.44646259278328E+04	1.1E-06	0
OPTMASS	3010	2505	22	24	24	0.88	-1.21525749987431E-01	3.5E-06	0
OPTPRLOC	30	30	22	23	23	0.01	-1.64197731141268E+01	0.0E+00	0
ORTHDRM2	8003	4000	3001	32590	32590	734.82	1.89018529895681E+04	4.7E-07	2
ORTHDRS2	5003	2500	3001	17604	17604	319.31	3.92185835949769E+04	3.0E-08	2
ORTHREGA	8197	4096	55	74	74	13.31	2.26478419070506E+04	1.7E-10	0
ORTHREGB	27	6	7	8	8	0.00	2.75224672917616E-12	3.1E-05	0
ORTHREGC	5005	2500	15	25	25	2.90	9.48128785888328E+01	5.8E-06	0
ORTHREGD	5003	2500	3001	32553	32553	410.71	2.13153100935007E+04	9.5E-09	2
ORTHREGF	7506	5000	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
ORTHREGG	4805	1600	28	32	32	2.69	6.69162378622909E+01	1.4E-05	0
ORTHREGM	10003	5000	3001	32463	32463	960.88	3.11822574208556E+04	5.2E-07	2
ORTHREGS	5003	2500	3001	32222	32222	352.78	3.92487478365314E+04	2.0E-08	2
OSBORNEA	5	0	3001	3620	3620	11.74	0.00000000000000E+00	0.0E+00	2
OSBORNEB	11	0	24	27	27	0.02	8.75947241298669E-02	0.0E+00	0
OSLBQP	8	0	18	19	19	0.00	6.25000014943871E+00	0.0E+00	0
PALMER1	4	0	20	21	21	0.01	1.17546025416460E+04	0.0E+00	0
PALMER1A	6	0	75	76	76	0.01	9.00341535944409E-02	0.0E+00	0
PALMER1B	4	0	53	54	54	0.01	3.44734980966661E+00	0.0E+00	0
PALMER1C	8	0	22	23	23	0.00	9.76050596977243E-02	0.0E+00	0
PALMER1D	7	0	20	21	21	0.01	6.52673985775021E-01	0.0E+00	0
PALMER1E	8	0	59	72	72	0.01	8.83331485979608E-02	0.0E+00	0
PALMER2	4	0	16	17	17	0.00	3.65109753197530E+03	0.0E+00	0
PALMER2A	6	0	70	78	78	0.01	1.72033142464645E-02	0.0E+00	0
PALMER2B	4	0	43	44	44	0.00	6.23266905974200E-01	0.0E+00	0
PALMER2C	8	0	17	18	18	0.00	1.43688921371875E-02	0.0E+00	0
PALMER2E	8	0	29	32	32	0.00	2.70769255315158E-02	0.0E+00	0
PALMER3	4	0	18	19	19	0.00	2.26595822038666E+03	0.0E+00	0
PALMER3A	6	0	96	103	103	0.01	2.05731812730606E-02	0.0E+00	0
PALMER3B	4	0	17	18	18	0.00	4.22764727474950E+00	0.0E+00	0
PALMER3C	8	0	17	18	18	0.00	1.95376428752411E-02	0.0E+00	0
PALMER3E	8	0	23	25	25	0.01	2.95152480881591E-02	0.0E+00	0
PALMER4	4	0	12	13	13	0.00	2.28538322743047E+03	0.0E+00	0
PALMER4A	6	0	53	56	56	0.00	4.06085340953129E-02	0.0E+00	0
PALMER4B	4	0	16	17	17	0.00	6.83513863532064E+00	0.0E+00	0
PALMER4C	8	0	18	19	19	0.00	5.03106871099488E-02	0.0E+00	0
PALMER4E	8	0	25	28	28	0.00	6.68000779194864E-02	0.0E+00	0

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PALMER5A	8	0	154	182	182	0.02	1.91977203678531E-01	0.0E+00	0
PALMER5B	9	0	49	50	50	0.00	1.67902334246330E-02	0.0E+00	0
PALMER5C	6	0	11	12	12	0.00	2.12808664390724E+00	0.0E+00	0
PALMER5D	8	0	14	15	15	0.01	8.73393947546204E+01	0.0E+00	0
PALMER5E	8	0	3001	3113	3113	6.81	0.00000000000000E+00	0.0E+00	2
PALMER6A	6	0	111	121	121	0.01	5.64962400340195E-02	0.0E+00	0
PALMER6C	8	0	19	20	20	0.00	1.63874425770302E-02	0.0E+00	0
PALMER6E	8	0	54	64	64	0.01	2.55505308269775E-04	0.0E+00	0
PALMER7A	6	0	99	112	112	0.01	1.12416399392015E+01	0.0E+00	0
PALMER7C	8	0	21	22	22	0.00	6.01987195642445E-01	0.0E+00	0
PALMER7E	8	0	28	40	40	0.00	1.01685748309116E+01	0.0E+00	0
PALMER8A	6	0	70	71	71	0.01	7.40097705133776E-02	0.0E+00	0
PALMER8C	8	0	20	21	21	0.01	1.59767833818998E-01	0.0E+00	0
PALMER8E	8	0	21	22	22	0.00	6.51664433015721E-03	0.0E+00	0
PARKCH	15	0	18	21	21	102.75	1.62374325821746E+03	0.0E+00	0
PENALTY1	1000	0	52	53	53	106.10	9.68617549610449E-03	0.0E+00	0
PENALTY2	200	0	15	18	18	0.36	4.71162772875319E+13	0.0E+00	0
PENALTY3	200	0	21	24	24	15.09	1.33660110308211E-03	0.0E+00	0
PENTAGON	6	15	28	29	29	0.00	1.36521779281027E-04	0.0E+00	0
PENTDI	5000	0	15	16	16	0.49	-7.49973894330808E-01	0.0E+00	0
PFIT1	3	3	3001	30815	30815	0.28	0.00000000000000E+00	5.2E-02	2
PFIT1LS	3	0	41	52	52	0.00	1.10532878034989E-04	0.0E+00	0
PFIT2	3	3	51	238	238	0.01	0.00000000000000E+00	2.2E-06	0
PFIT2LS	3	0	18	22	22	0.00	4.77987203519391E-05	0.0E+00	0
PFIT3	3	3	26	49	49	0.01	0.00000000000000E+00	2.3E-06	0
PFIT3LS	3	0	22	28	28	0.01	6.13947687638155E-04	0.0E+00	0
PFIT4	3	3	135	1023	1023	0.02	0.00000000000000E+00	5.9E-07	0
PFIT4LS	3	0	25	30	30	0.00	4.55262927431990E-03	0.0E+00	0
PINENE	8805	8795	23	24	24	3.78	1.98721662716925E+01	3.3E-11	0
POLAK1	3	2	14	15	15	0.00	2.71828188820336E+00	0.0E+00	0
POLAK2	11	2	17	19	19	0.01	5.45981498749872E+01	1.7E-07	0
POLAK3	12	10	22	23	23	0.01	5.93300349580568E+00	3.6E-07	0
POLAK4	3	3	11	12	12	0.00	8.61983592624082E-11	5.4E-11	0
POLAK5	3	2	35	67	67	0.00	5.0000000001978E+01	1.7E-08	0
POLAK6	5	4	27	28	28	0.01	-4.40000002307051E+01	6.6E-07	0
POLYGON	200	5049	72	73	73	7.43	-7.19740051328934E-01	1.3E-15	0
POROUS1	5184	4900	3001	3370	3370	1719.39	0.00000000000000E+00	3.1E-01	2
POROUS2	5184	4900	30	33	33	19.52	0.00000000000000E+00	9.7E-05	0
PORTFL1	12	1	16	17	17	0.00	2.04863504418914E-02	7.1E-12	0
PORTFL2	12	1	17	18	18	0.01	2.96892491405503E-02	1.6E-13	0
PORTFL3	12	1	17	18	18	0.02	3.27497167653360E-02	1.6E-12	0
PORTFL4	12	1	16	17	17	0.02	2.63069682427916E-02	2.1E-14	0
PORTFL6	12	1	15	16	16	0.01	2.57918461128185E-02	8.4E-12	0
PORTSNQP	100000	2	142	143	143	240.28	3.33318629644617E+04	1.4E-06	0
PORTSQP	100000	1	19	20	20	66.45	3.33313417559326E+04	2.0E-07	0
POWELL20	5000	5000	244	245	245	9.30	6.51195147996758E+09	4.7E-05	0
POWELLBS	2	2	17	18	18	0.00	0.00000000000000E+00	4.0E-08	0
POWELLSG	5000	0	19	20	20	0.44	9.04133271110626E-07	0.0E+00	0
POWELLSQ	2	2	173	174	174	0.01	0.00000000000000E+00	1.1E-05	0
POWER	1000	0	33	34	34	65.82	4.12109991918714E-10	0.0E+00	0
PRIMAL1	325	85	25	26	26	0.36	-3.50127136964567E-02	0.0E+00	0
PRIMAL2	649	96	21	22	22	1.23	-3.37331601174761E-02	0.0E+00	0
PRIMAL3	745	111	20	21	21	10.04	-1.35754998736992E-01	0.0E+00	0
PRIMAL4	1489	75	17	18	18	42.08	-7.46090278690376E-01	0.0E+00	0
PRIMALC1	230	9	28	29	29	0.52	-6.15524816861314E+03	0.0E+00	0
PRIMALC2	231	7	31	32	32	0.57	-3.55130518515103E+03	0.0E+00	0
PRIMALC5	287	8	19	20	20	0.68	-4.27232516916274E+02	0.0E+00	0
PRIMALC8	520	8	27	28	28	4.82	-1.83094296942698E+04	0.0E+00	0
PROBPENL	500	0	18	20	20	7.73	-1.74510163759378E-05	0.0E+00	0
PRODPLO	60	29	18	19	19	0.00	5.87901009190015E+01	3.1E-09	0
PRODPL1	60	29	17	19	19	0.01	3.57389766457227E+01	2.6E-09	0
PSPDOC	4	0	11	12	12	0.00	2.41421369929495E+00	0.0E+00	0
PT	2	501	23	24	24	0.04	1.78394229549968E-01	0.0E+00	0
QC	9	4	33	34	34	0.00	-9.56537659519622E+02	3.3E-11	0
QCNEW	9	3	3001	3002	3002	0.37	-9.68921577844908E+02	2.9E-71	2
QPBAND	50000	25000	11	12	12	6.85	-4.99626171139306E+04	0.0E+00	0
QPCBLEND	83	74	28	30	30	0.02	-7.84215654200470E-03	8.2E-12	0
QPCBOEI1	384	351	92	93	93	0.44	1.15038871374373E+07	3.5E-03	0
QPCBOEI2	143	166	75	76	76	0.10	8.17196355422660E+06	8.8E-10	0
QPCSTAIR	467	356	283	284	284	1.50	6.20438762651378E+06	1.2E-04	0
QPNBAND	50000	25000	11	12	12	9.95	-2.49903320073938E+05	0.0E+00	0
QPNBLEND	83	74	27	28	28	0.02	-9.13572937012951E-03	2.0E-12	0
QPNBOEI1	384	351	3001	4591	4591	231.09	0.00000000000000E+00	0.0E+00	2
QPNBOEI2	143	166	109	110	110	0.25	1.36827634615721E+06	8.6E-15	0
QPNSTAIR	467	356	316	360	360	2.98	5.14603307925967E+06	1.4E-14	0
QR3D	610	610	3001	3036	3036	2137.48	0.00000000000000E+00	7.5E-02	2
QR3DLS	610	0	145	252	252	161.25	1.65954279127390E-07	0.0E+00	0
QRTQUAD	5000	0	591	592	592	32.21	-2.64847823521181E+11	0.0E+00	0
QUARTC	5000	0	37	38	38	0.64	9.99785181380045E+00	0.0E+00	0
QUDLIN	5000	0	4	5	5	0.13	-5.11217425801554E+08	0.0E+00	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
READING1	4002	2000	559	627	627	19.52	-1.60480389365488E-01	8.0E-07	0
READING2	6003	4000	466	467	467	20.32	1.04146884611510E-04	1.3E-11	4
READING3	4002	2001	3001	3252	3252	448.43	0.00000000000000E+00	0.0E+00	2
READING4	5001	5000	3001	24674	24674	793.40	0.00000000000000E+00	0.0E+00	2
READING5	5001	5000	21	22	22	1.38	-2.67544287020508E-13	2.7E-08	0
READING6	102	50	24	25	25	0.08	-1.44659683970034E+02	4.3E-06	0
READING7	1002	500	147	149	149	497.41	-1.19946559583629E+03	8.8E-09	0
READING8	2002	1000	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
READING9	10002	5000	18	19	19	2.08	-4.43364955170021E-02	1.9E-10	0
RECIPE	3	3	17	18	18	0.00	0.00000000000000E+00	7.5E-07	0
RES	20	14	14	15	15	0.01	0.00000000000000E+00	2.8E-13	0
RK23	17	11	12	13	13	0.01	8.33333585600791E-02	3.2E-08	0
ROBOT	14	2	16	17	17	0.01	6.59329884398652E+00	1.1E-08	0
ROBOTARM	4412	3202	3001	3210	3210	384.54	-1.22777204728266E+00	5.9E-01	2
ROCKET	2407	2002	496	1940	1940	25.29	-1.01282940058996E+00	2.5E-08	0
ROSENBR	2	0	23	25	25	0.00	2.88777886077378E-12	0.0E+00	0
ROSEMMX	5	4	15	16	16	0.00	-4.40000107667611E+01	3.5E-05	0
ROTDISC	905	1081	3001	5175	5175	754.72	0.00000000000000E+00	0.0E+00	2
RSNBRNE	2	2	14	24	24	0.01	0.00000000000000E+00	1.2E-06	0
S268	5	5	26	27	27	0.00	2.13221937883645E-08	0.0E+00	0
S277-280	4	4	7	8	8	0.00	5.07619038467279E+00	3.3E-08	0
S308	2	0	12	13	13	0.00	7.73199056492988E-01	0.0E+00	0
S316-322	2	1	13	14	14	0.00	3.34314555114492E+02	1.1E-07	0
S368	8	0	23	25	25	0.00	-7.49999996280835E-01	0.0E+00	0
SAWPATH	583	774	56	57	57	0.37	7.50458726552760E+02	2.3E-06	0
SBRYBND	5000	0	10	14	14	0.99	5.09779443982331E-01	0.0E+00	0
SCHMVETT	5000	0	5	6	6	0.42	-1.49939999989649E+04	0.0E+00	0
SCOND1LS	5002	0	3001	3002	3002	246.80	8.94648572651338+157	0.0E+00	2
SCOSINE	5000	0	56	57	57	2.10	-2.67859690284519E+03	0.0E+00	0
SCURLY10	10000	0	137	208	208	29.26	-7.72882929757179E+05	0.0E+00	0
SCURLY20	10000	0	133	201	201	68.09	-7.73486871100851E+05	0.0E+00	0
SCURLY30	1000	0	33	34	34	3.39	-8.82005059641292E+04	0.0E+00	0
SEMICN2U	5002	5000	205	206	206	14.91	0.00000000000000E+00	7.6E-13	0
SEMICON1	5002	5000	135	267	267	15.24	0.00000000000000E+00	3.3E-07	0
SEMICON2	5002	5000	48	64	64	3.73	0.00000000000000E+00	4.4E-08	0
SENSORS	100	0	26	27	27	1.68	-1.96678124998870E+03	0.0E+00	0
SIM2BQP	2	0	15	16	16	0.00	1.18254595265370E-08	0.0E+00	0
SIMBQP	2	0	13	14	14	0.00	2.06860599517541E-09	0.0E+00	0
SIMPLLLPA	2	2	9	10	10	0.00	1.00000001262441E+00	0.0E+00	0
SIMPLLLPB	2	3	9	10	10	0.00	1.10000002249164E+00	0.0E+00	0
SINEALI	1000	0	10	11	11	0.09	-9.98990385865240E+04	0.0E+00	0
SINEVAL	2	0	47	58	58	0.00	4.98691323838927E-18	0.0E+00	0
SINQUAD	5000	0	17	20	20	2.11	-6.75701375733488E+06	0.0E+00	0
SINROSNB	1000	999	97	99	99	1.09	4.00000000011979E+02	1.8E-07	0
SINVALNE	2	2	13	19	19	0.01	0.00000000000000E+00	4.7E-06	0
SIPOW1	2	2000	23	24	24	0.17	-9.99999996369690E-01	0.0E+00	0
SIPOW1M	2	2000	26	27	27	0.19	-1.00000119956080E+00	0.0E+00	0
SIPOW2	2	2000	29	30	30	0.18	-9.99999998930835E-01	0.0E+00	0
SIPOW2M	2	2000	32	33	33	0.20	-1.00000490466634E+00	0.0E+00	0
SIPOW3	4	2000	21	22	22	0.20	5.34665371588480E-01	0.0E+00	0
SIPOW4	4	2000	17	18	18	0.22	2.72365220708684E-01	0.0E+00	0
SISSER	2	0	16	17	17	0.01	8.58643578725542E-10	0.0E+00	0
SMBANK	117	64	24	25	25	0.02	-7.12911939242590E+06	1.2E-10	0
SMPSPF	720	263	109	125	125	3.87	1.03292621732911E+06	3.8E-13	0
SNAIL	2	0	67	81	81	0.00	6.14948209116598E-14	0.0E+00	0
SNAKE	2	2	3001	30045	30045	0.17	-6.95634713666380E+01	5.6E-03	2
SOSQP1	5000	2501	10	11	11	0.45	3.15514346349979E-09	7.0E-07	0
SOSQP2	5000	2501	12	13	13	0.53	-1.24865875487170E+03	9.6E-03	0
SPANHYD	97	33	652	6863	6863	1.09	2.39738000709205E+02	1.1E-13	0
SPARSINE	1000	0	22	29	29	57.27	2.86767582125906E-11	0.0E+00	0
SPARSQR	1000	0	21	22	22	8.28	1.18396147592240E-08	0.0E+00	0
SPECAN	9	0	22	23	23	2.61	1.64567203317165E-13	0.0E+00	0
SPIRAL	3	2	141	145	145	0.01	-6.47618249953520E-09	6.5E-09	0
SPMSRTLS	4999	0	13	14	14	1.03	1.07957461301251E-06	0.0E+00	0
SREADIN3	4002	2001	38	41	41	2.77	-1.11471074923439E-01	2.1E-05	0
SROSENBR	5000	0	8	9	9	0.26	1.29457152756522E-03	0.0E+00	0
SSC	5184	0	7	8	8	1.01	-2.07817328276791E+00	0.0E+00	0
SSEBLIN	194	72	16	17	17	0.02	1.61706029962557E+07	6.4E-06	0
SSEBNLN	194	96	69	70	70	0.08	1.61721941951906E+07	2.6E-07	0
SSNLBEAM	3003	2000	107	108	108	3.76	3.40030415095835E+02	1.2E-10	0
STCQP1	8193	4095	13	14	14	6.73	3.67107866140238E+05	2.0E-05	0
STCQP2	8193	4095	13	14	14	12.55	3.71906336809185E+04	1.2E-06	0
STEENBRA	432	108	21	22	22	0.92	1.69576777368274E+04	2.9E-05	0
STEENBRB	468	108	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
STEENBRC	540	126	946	5269	5269	94.74	2.75049390934487E+04	1.0E-12	0
STEENBRD	468	108	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
STEENBRE	540	126	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
STEENBRF	468	108	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
STEENBRG	540	126	386	392	392	60.82	2.74209315071390E+04	1.5E-12	0
STEERING	2006	1600	3001	3003	3003	96.35	9.96240203459520E-01	1.0E-02	2

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\ c(x_*)\ $	exit
STNQP1	8193	4095	38	39	39	49.50	-3.11704282022820E+05	5.4E-05	0
STNQP2	8193	4095	62	63	63	208.74	-5.749549828166666E+05	3.6E-04	0
STRATEC	10	0	22	26	26	49.94	2.21226229090739E+03	0.0E+00	0
SUPERSIM	2	2	8	9	9	0.00	6.66666632923175E-01	6.8E-08	0
SVANBERG	5000	5000	13	14	14	1.64	8.36162821555753E+03	0.0E+00	0
SWOPF	83	92	19	21	21	0.01	6.78601826274236E-02	2.0E-08	0
SYNTHE1	6	6	16	17	17	0.00	7.59284465409359E-01	0.0E+00	0
SYNTHE2	11	14	21	22	22	0.00	-5.54405200755354E-01	1.0E-11	0
SYNTHE3	17	23	20	21	21	0.00	1.50821925773522E+01	4.6E-10	0
TAME	2	1	9	10	10	0.00	0.00000000000000E+00	7.3E-10	0
TENBARS1	18	9	3001	30184	30184	0.93	7.08896387853478E+02	4.8E+02	2
TENBARS2	18	8	3001	21805	21805	0.92	2.42021936010370E+01	5.7E+02	2
TENBARS3	18	8	3001	26664	26664	0.95	5.64052003090297E+01	5.1E+02	2
TENBARS4	18	9	3001	28278	28278	0.96	2.16922507953243E+02	5.4E+02	2
TESTQUAD	5000	0	12	13	13	0.23	1.21691396468547E-16	0.0E+00	0
TFI1	3	101	34	35	35	0.02	5.33468727686137E+00	7.9E-09	0
TFI2	3	101	16	17	17	0.01	6.49031120803766E-01	0.0E+00	0
TFI3	3	101	32	33	33	0.01	4.30115797238151E+00	0.0E+00	0
TOINTGOR	50	0	11	12	12	0.00	1.37390546066398E+03	0.0E+00	0
TOINTGSS	5000	0	21	23	23	0.94	9.99999999936004E+00	0.0E+00	0
TOINTPSP	50	0	17	23	23	0.01	2.25560409423503E+02	0.0E+00	0
TOINTQOR	50	0	9	10	10	0.01	1.17547222214629E+03	0.0E+00	0
TORSION1	5476	0	16	17	17	1.53	-4.30270136411071E-01	0.0E+00	0
TORSION2	5476	0	16	17	17	1.51	-4.30270065854295E-01	0.0E+00	0
TORSION3	5476	0	15	16	16	1.46	-1.21691518074515E+00	0.0E+00	0
TORSION4	5476	0	15	16	16	1.45	-1.21691544234310E+00	0.0E+00	0
TORSION5	5476	0	14	15	15	1.36	-2.86326107223055E+00	0.0E+00	0
TORSION6	5476	0	14	15	15	1.38	-2.86326054567999E+00	0.0E+00	0
TORSIONA	5476	0	17	18	18	1.87	-4.18289184732366E-01	0.0E+00	0
TORSIONB	5476	0	17	18	18	1.85	-4.18289295318453E-01	0.0E+00	0
TORSIONC	5476	0	15	16	16	1.67	-1.20416908556623E+00	0.0E+00	0
TORSIOND	5476	0	15	16	16	1.66	-1.20416951692218E+00	0.0E+00	0
TORSIONE	5476	0	14	15	15	1.61	-2.85012978589378E+00	0.0E+00	0
TORSIONF	5476	0	14	15	15	1.59	-2.85012968538534E+00	0.0E+00	0
TQUARTIC	5000	0	14	19	19	0.72	6.76505564541484E-19	0.0E+00	0
TRAINF	4008	2002	59	60	60	1.70	3.10340331864885E+00	3.1E-11	0
TRAINH	4008	2002	228	245	245	10.14	1.23119281344410E+01	2.5E-09	0
TRIDIA	5000	0	10	11	11	0.26	3.99221547740523E-14	0.0E+00	0
TRIGGER	7	6	3001	31250	31250	0.52	0.00000000000000E+00	2.2E-10	2
TRIMLOSS	142	75	38	42	42	0.03	9.06000212708863E+00	7.3E-15	0
TRUSPYR1	11	4	25	27	27	0.00	1.12287408695100E+01	2.2E-06	0
TRUSPYR2	11	11	20	22	22	0.01	1.12287399307653E+01	1.0E-05	0
TRY-B	2	1	17	19	19	0.00	1.85193879427135E-17	3.4E-08	0
TWOBARS	2	2	10	11	11	0.00	1.50865241958107E+00	0.0E+00	0
UBH1	9009	6000	219	220	220	19.93	1.18620903622639E+00	2.2E-13	0
UBH5	5010	3500	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
VANDERM1	100	199	3001	3022	3022	361.78	0.00000000000000E+00	1.2E+00	2
VANDERM2	100	199	3001	3022	3022	358.86	0.00000000000000E+00	1.2E+00	2
VANDERM3	100	199	923	9295	9295	130.56	0.00000000000000E+00	2.9E-08	0
VARDIM	200	0	30	31	31	0.68	9.79667483934921E-04	0.0E+00	0
VAREIGVL	50	0	32	52	52	0.05	1.68631670093547E-18	0.0E+00	0
VIBRBEAM	8	0	16	35	35	0.02	1.74886679597057E+00	0.0E+00	0
WATER	31	10	21	22	22	0.01	1.05493798982359E+04	2.0E-07	0
WATSON	12	0	16	17	17	0.02	1.00505858006718E-08	0.0E+00	0
WEEDS	3	0	23	28	28	0.00	2.68213258964789E+00	0.0E+00	0
WOMFLET	3	3	11	12	12	0.00	6.04999993870693E+00	6.9E-08	0
WOODS	4000	0	41	53	53	0.90	2.60206116548309E-04	0.0E+00	0
YAO	2002	2000	64	65	65	0.95	1.97703729550385E+02	6.1E-12	0
YATP1SQ	123200	123200	99999	2	2	99999.99	0.00000000000000E+00	0.0E+00	-1
YFIT	3	0	36	41	41	0.01	2.21715124647699E-09	0.0E+00	0
YFITU	3	0	35	40	40	0.01	5.13678070847728E-08	0.0E+00	0
YORKNET	312	256	22	24	24	0.08	1.39228947259257E+04	4.0E-03	0
ZAMB2	3966	1440	37	38	38	1.98	-1.05461066826533E+01	3.6E-06	0
ZAMB2-10	270	96	29	30	30	0.06	-1.58193928908885E+00	6.0E-06	0
ZAMB2-11	270	96	30	33	33	0.08	-1.11564009280310E+00	6.5E-07	0
ZAMB2-8	138	48	31	32	32	0.03	-1.52640099503447E-01	6.6E-06	0
ZAMB2-9	138	48	29	30	30	0.03	-3.54584983356929E-01	2.3E-05	0
ZANGWIL2	2	0	7	8	8	0.00	-1.82000000090949E+01	0.0E+00	0
ZANGWIL3	3	3	13	14	14	0.00	0.00000000000000E+00	2.0E-07	0
ZECEVIC2	2	2	11	12	12	0.00	-4.12499999774470E+00	0.0E+00	0
ZECEVIC3	2	2	12	13	13	0.00	9.73094501643330E+01	0.0E+00	0
ZECEVIC4	2	2	15	16	16	0.00	7.55750779885709E+00	0.0E+00	0
ZIGZAG	3004	2500	37	39	39	0.93	8.63955251522709E+01	7.2E-09	0
ZY2	3	2	12	14	14	0.00	2.00000007367293E+00	0.0E+00	0