Table of results on the CUTEr test set for IPOPT

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 IPOPT (Version 2.1-beta as for Jan 1, 2004) 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 colums in the table.

Name	Name of the Problem
n	Number of variables
m	Number of equality constraints
# iter	Number of iterations
# f	Nubmer 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 11: `NaN` or `Inf` occured 12: Number of iterations exceeded in restoration phase 16: Point is (almost) feasible, but restoration phase is called 17: Convergence to stationary point for infeasibility 18: Restoration phase cannot further improve feasibility

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
3PK	30	0	11	12	0	0.01	1.72011856671444E+00	0.0E+00	0
AOENDNDL	45006	15002	11	12	12	5.80	-2.60706614264257E-04	8.5E-15	0
AOENINDL	45006	15002	11	12	12	5.66	-2.60706614264257E-04	2.1E-14	0
AOENSNDL	45006	15002	21	46	46	454.26	-2.62826824651798E-04	5.3E-09	0
AOESDNDL	45006	15002	11	12	12	5.65	-2.60706614264257E-04	8.0E-15	0
AOESINDL	45006	15002	11	12	12	5.66	-2.60706614264257E-04	2.0E-14	0
AOESSNDL	45006	15002	21	46	46	458.61	-2.62826824651948E-04	5.3E-09	0
AONNDNDL	60012	20004	23	24	24	15.92	-2.60705728161556E-04	2.1E-14	0
AONNDNIL	60012	20004	97	98	98	69.21	-2.46634425177466E-04	8.6E-15	0
AONNDNSL	60012	20004	60	65	65	73.86	-1.53067231330914E-03	8.2E-12	0
AONNSNSL	60012	20004	32	33	33	133.46	-4.36355055406066E-04	5.4E-09	0
AONSDSDL	60012	20004	20	21	21	14.57	-2.60705227143130E-04	1.3E-14	0
AONSDSDS	6012	2004	42	65	65	2.29	-2.09387943949792E-03	5.4E-09	0
AONSDSIL	60012	20004	100	101	101	71.10	-2.46699744633907E-04	2.1E-14	0
AONSDSSL	60012	20004	40	47	47	54.48	-7.11061617347054E-04	1.5E-12	0
AONSSSSL	60012	20004	29	32	32	224.87	-3.70525148547852E-03	5.4E-09	0
A2ENDNDL	45006	15002	19	20	20	7.68	-2.10432043113517E-04	8.6E-15	0
A2ENINDL	45006	15002	19	20	20	7.60	-2.12110423990577E-04	8.5E-15	0
A2ENSNDL	45006	15002	26	27	27	597.49	-1.78609541323046E-04	6.9E-09	0
A2ESDNDL	45006	15002	19	20	20	7.68	-2.10432043113517E-04	1.0E-14	0
A2ESINDL	45006	15002	19	20	20	7.71	-2.12110423990577E-04	8.5E-15	0
A2ESSNDL	45006	15002	26	27	27	587.82	-1.78609541323303E-04	6.9E-09	0
A2NNDNDL	60012	20004	38	44	44	24.81	-2.03665850051562E-04	1.6E-14	0
A2NNDNIL	60012	20004	—	—	—	—	---	---	-1
A2NNDNSL	60012	20004	68	123	123	104.90	-1.98430552126283E-04	1.9E-13	0
A2NNSNSL	60012	20004	56	60	60	491.29	-2.32335091022259E-02	5.4E-09	0
A2NSDSDL	60012	20004	29	30	30	17.88	-2.10918007781657E-04	1.2E-14	0
A2NSDSIL	60012	20004	329	614	614	332.64	2.27974288257789E+03	5.0E-08	18
A2NSDSSL	60012	20004	63	97	97	110.37	-1.31043807876506E+00	5.8E-09	0
A2NSSSSL	60012	20004	54	92	92	742.66	-1.84626327822558E-03	5.4E-09	0
A4X12	514	385	119	137	137	1.80	6.80654940606891E-01	1.2E-16	0
A5ENDNDL	45006	15002	19	20	20	7.59	-1.24458172265410E-04	8.7E-15	0
A5ENINDL	45006	15002	19	20	20	7.72	-1.21009608838628E-04	1.5E-14	0
A5ENSNDL	45006	15002	25	26	26	774.64	-4.17217276491815E-05	7.0E-09	0
A5ESDNDL	45006	15002	19	20	20	7.61	-1.24458172265410E-04	8.1E-15	0
A5ESINDL	45006	15002	19	20	20	7.65	-1.21009608838628E-04	8.3E-15	0
A5ESSNDL	45006	15002	25	26	26	704.33	-4.17217276492075E-05	7.0E-09	0
A5NNDNDL	60012	20004	28	29	29	18.50	-1.14887622295088E-04	1.7E-14	0
A5NNDNIL	60012	20004	—	—	—	—	---	---	-1
A5NNDNSL	60012	20004	79	190	190	245.19	-3.34952874312045E-04	2.8E-12	0
A5NNSNSL	60012	20004	49	61	61	651.26	-4.71380200757206E-03	5.4E-09	0
A5NSDSDL	60012	20004	28	29	29	17.63	-1.25715605789383E-04	1.3E-14	0
A5NSDSDM	6012	2004	42	65	65	2.29	-2.09387943949792E-03	5.4E-09	0
A5NSDSIL	60012	20004	—	—	—	—	---	---	-1
A5NSDSSL	60012	20004	58	122	122	191.18	-3.18854380334298E-03	2.5E-12	0
A5NSSNSM	6012	2004	42	65	65	2.27	-2.09387943949792E-03	5.4E-09	0
A5NSSSSL	60012	20004	36	39	39	607.35	-7.14085664733661E-04	5.4E-09	0
AGG	615	488	186	208	208	1.20	-3.59917672889685E+07	9.3E-10	0
AIRCRFTA	8	5	3	4	4	0.00	0.00000000000000E+00	3.7E-12	0
AIRCRFTB	8	0	15	18	0	0.01	4.79032465054806E-25	0.0E+00	0
AIRPORT	126	42	16	17	17	0.08	4.79527014097272E+04	1.2E-15	0
AKIVA	2	0	6	7	0	0.01	6.16604221241775E+00	0.0E+00	0
ALJAZZAF	1000	1	39	129	129	0.20	3.74387605153667E+04	1.1E-09	0
ALLINIT	4	0	12	16	0	0.01	1.67059684328799E+01	0.0E+00	0
ALLINITC	4	1	24	28	28	0.01	3.04926074060114E+01	7.7E-15	0
ALLINITU	4	0	14	15	0	0.01	5.74438491032034E+00	0.0E+00	0
ALLINQP	68750	25000	25	26	26	15.30	-5.48127595118093E+03	2.2E-16	0
ALSOTAME	2	1	8	9	9	0.01	8.20849998936523E-02	0.0E+00	0
ARGLINA	200	0	1	2	0	7.33	2.00000000000000E+02	0.0E+00	0
ARGLINB	200	0	2	3	0	8.63	9.96254681696126E+01	0.0E+00	0
ARGLINC	200	0	2	3	0	8.34	1.01125470519078E+02	0.0E+00	0
ARGTRIG	200	200	3	4	4	1.00	0.00000000000000E+00	9.8E-11	0
ARTIF	5002	5000	112	515	515	9.12	0.00000000000000E+00	3.8E+00	17
ARWHEAD	5000	0	6	7	0	0.89	0.00000000000000E+00	0.0E+00	0
AUG2D	20200	10000	2	3	3	1.36	1.68741175289674E+06	6.9E-15	0
AUG2DC	20200	10000	1	2	2	0.76	1.81836806557020E+06	6.0E-15	0
AUG2DCQP	20200	10000	28	29	29	6.67	6.49813473564594E+06	1.1E-14	0
AUG2DQP	20200	10000	30	31	31	7.08	6.23701202185620E+06	1.2E-14	0
AUG3D	27543	8000	2	3	3	213.49	2.45614859698896E+04	1.1E-15	0
AUG3DC	27543	8000	1	2	2	6.21	2.76540710876544E+04	2.0E-15	0
AUG3DCQP	27543	8000	24	25	25	72.85	6.15603833659171E+04	1.7E-15	0
AUG3DQP	27543	8000	24	25	25	72.25	5.42289961289057E+04	1.8E-15	0
AVGASA	18	10	10	11	11	0.01	-4.63192559252868E+00	1.4E-16	0
AVGASB	18	10	12	13	13	0.01	-4.48321940723197E+00	6.9E-17	0
AVION2	49	15	3000	3037	3037	1.76	9.46801945349158E+07	1.4E-12	1
BARD	3	0	8	9	0	0.01	8.21487730657899E-03	0.0E+00	0
BATCH	109	73	30	31	31	0.02	2.59180337033269E+05	6.9E-13	0
BDEXP	5000	0	18	19	0	0.60	1.60854484598531E-06	0.0E+00	0
BDQRTIC	5000	0	9	10	0	4.85	2.00062568784336E+04	0.0E+00	0
BDVALUE	5002	5000	1	2	2	0.17	0.00000000000000E+00	5.9E-10	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
BDVALUES	10002	10000	13	14	14	1.38	0.00000000000000E+00	2.0E-10	0
BEALE	2	0	8	11	0	0.00	4.34256970662117E-18	0.0E+00	0
BIGGS3	6	0	9	16	0	0.01	4.08055695279817E-17	0.0E+00	0
BIGGS5	6	0	20	24	0	0.01	4.01650732278289E-17	0.0E+00	0
BIGGS6	6	0	77	88	0	0.01	3.74888702823173E-17	0.0E+00	0
BIGGSB1	5000	0	17	18	0	0.50	1.50047172634084E-02	0.0E+00	0
BIGGSC4	11	7	26	34	34	0.01	-2.45000003371699E+01	8.9E-16	0
BLOCKQP1	10011	5001	76	81	81	23.35	-4.99400008746643E+03	5.2E-14	0
BLOCKQP2	10011	5001	19	20	20	6.01	-4.99380020740198E+03	3.2E-14	0
BLOCKQP3	10011	5001	3000	3002	3002	907.19	-9.00121422260636E+02	3.3E-16	1
BLOCKQP4	10011	5001	32	33	33	9.87	-2.49579955755206E+03	6.3E-16	0
BLOCKQP5	10011	5001	3000	3001	3001	913.47	-1.13003175596891E+03	4.4E-16	1
BLOWEYA	4002	2002	9	10	10	0.45	-2.27812326287703E-02	5.7E-16	0
BLOWEYB	4002	2002	8	9	9	0.40	-1.52261321834794E-02	1.7E-15	0
BLOWEYC	4002	2002	9	10	10	0.45	-1.52458446587293E-02	2.0E-16	0
BOOTH	2	2	1	2	2	0.01	0.00000000000000E+00	0.0E+00	0
BOX2	3	0	8	9	0	0.01	5.40377757722447E-19	0.0E+00	0
BOX3	3	0	9	11	0	0.01	5.38222270912437E-19	0.0E+00	0
BQP1VAR	1	0	6	7	0	0.01	-7.47939911043603E-09	0.0E+00	0
BQPGABIM	50	0	15	17	0	0.01	-3.78910090015362E-05	0.0E+00	0
BQPGASIM	50	0	15	17	0	0.01	-5.51693723202982E-05	0.0E+00	0
BQPGAUSS	2003	0	22	23	0	0.55	-3.62577706382440E-01	0.0E+00	0
BRAINPC0	6907	6900	173	455	455	166.29	4.05150008812891E+03	1.6E-08	18
BRAINPC1	6907	6900	198	1477	1477	657.10	4.13789000662631E-04	3.2E-13	0
BRAINPC2	13807	13800	149	462	462	486.74	8.69783514182680E+02	4.5E-10	18
BRAINPC3	6907	6900	201	1044	1044	162.91	6.84362295441533E+03	6.1E-07	18
BRAINPC4	6907	6900	132	576	576	116.37	9.73611230743472E-01	9.0E-07	18
BRAINPC5	6907	6900	167	798	798	108.16	1.77469945484176E+04	3.2E-05	18
BRAINPC6	6907	6900	426	4419	4419	277.19	1.77469761271535E+04	5.7E-05	18
BRAINPC7	6907	6900	265	912	912	225.47	8.36127100595167E+02	4.6E-07	18
BRAINPC8	6907	6900	507	3869	3869	934.95	6.18600797259953E+03	1.9E-06	18
BRAINPC9	6907	6900	248	952	952	166.61	1.75428540655069E+04	3.1E-06	18
BRATU1D	5003	0	4	20	0	0.52	-6.82126135091750E+00	0.0E+00	16
BRATU2D	5184	4900	3	4	4	3.56	0.00000000000000E+00	1.5E-12	0
BRATU2DT	5184	4900	24	77	77	19.18	0.00000000000000E+00	7.0E-05	18
BRATU3D	4913	3375	3	4	4	49.72	0.00000000000000E+00	3.0E-09	0
BRKMCC	2	0	3	4	0	0.01	1.69042679196450E-01	0.0E+00	0
BROWNAL	200	0	5	6	0	6.38	1.08946062414703E-21	0.0E+00	0
BROWNALE	200	200	8	16	16	2.12	0.00000000000000E+00	8.8E-15	0
BROWNBS	2	0	7	8	0	0.00	0.00000000000000E+00	0.0E+00	0
BROWNDEN	4	0	8	9	0	0.00	8.58222013524326E+04	0.0E+00	0
BROYDN3D	5000	5000	4	5	5	0.26	0.00000000000000E+00	7.5E-10	0
BROYDN7D	5000	0	124	142	0	7.84	1.51373766890461E+03	0.0E+00	0
BROYDNBD	5000	5000	48	80	80	8.32	0.00000000000000E+00	2.6E-10	0
BRYBND	5000	0	11	13	0	1.12	4.29003826211314E-21	0.0E+00	0
BT1	2	1	7	12	12	0.01	-9.99999999997481E-01	2.5E-14	0
BT10	2	2	6	7	7	0.00	-1.00000000278531E+00	4.2E-09	0
BT11	5	3	8	9	9	0.00	8.24891777619499E-01	2.8E-16	0
BT12	5	3	4	5	5	0.00	6.18811881188119E+00	3.2E-13	0
BT13	5	1	25	26	26	0.01	-8.99999999999987E-09	1.7E-08	0
BT2	3	1	12	13	13	0.00	3.25682003932612E-02	2.2E-12	0
BT3	5	3	1	2	2	0.00	4.09302325581396E+00	7.1E-15	0
BT4	3	2	9	12	12	0.00	-3.70476818363945E+00	1.0E-09	0
BT5	3	2	7	8	8	0.01	9.61715172130052E+02	7.9E-15	0
BT6	5	2	13	18	18	0.01	2.77044788425072E-01	5.3E-11	0
BT7	5	3	16	30	30	0.00	3.06500000000000E+02	8.9E-16	0
BT8	5	2	34	35	35	0.01	1.00000000000000E+00	3.4E-21	0
BT9	4	2	13	14	14	0.00	-1.00000000000314E+00	1.7E-12	0
BYRDSPHR	3	2	12	70	70	0.01	-4.68330013291149E+00	1.0E-09	0
C-RELOAD	426	284	232	354	354	5.81	-1.00091766664960E+00	2.1E-16	0
CAMEL6	2	0	11	12	0	0.00	-1.03162845348988E+00	0.0E+00	0
CAMSHAPE	2403	1603	69	107	107	1.23	-4.27709020374326E+00	6.4E-14	0
CANTILVR	6	1	11	12	12	0.00	1.33995635863001E+00	1.3E-11	0
CATENA	3003	1000	48	99	99	693.84	-2.09958257807905E+06	2.1E-13	0
CATENARY	501	166	3000	3615	3615	75.66	-1.58172121585796E-03	5.3E+00	1
CATMIX	2403	1600	132	592	592	6.73	-4.78703442268572E-02	7.4E-11	0
CB2	6	3	9	10	10	0.01	1.95222448878095E+00	1.1E-10	0
CB3	6	3	9	10	10	0.01	1.99999999754178E+00	3.6E-11	0
CBRATU2D	3200	2888	3	4	4	2.26	0.00000000000000E+00	1.1E-09	0
CBRATU3D	3456	2000	3	4	4	24.32	0.00000000000000E+00	5.6E-09	0
CHACONN1	6	3	7	8	8	0.00	1.95222448878143E+00	1.0E-10	0
CHACONN2	6	3	9	11	11	0.00	1.99999999754100E+00	3.5E-11	0
CHAIN	802	401	7	8	8	0.04	5.06862169454134E+00	7.1E-09	0
CHAINWOO	4000	0	188	385	0	6.12	7.93312379495048E+01	0.0E+00	0
CHANDHEQ	100	100	14	15	15	0.65	-9.64061981889941E-27	2.8E-09	0
CHANDHEU	500	500	14	15	15	136.55	0.00000000000000E+00	2.8E-09	0
CHANNEL	9600	9598	3	5	5	1.67	1.00000000000000E+00	3.8E-12	0
CHARDIS0	2000	0	7	8	0	377.88	0.00000000000000E+00	0.0E+00	0
CHARDIS1	1499	499	19	20	20	218.54	5.70242724175699E-06	6.4E-09	0
CHEBYQAD	100	0	270	355	0	22.58	4.87769643507280E-03	0.0E+00	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
CHEMRCTA	5000	5000	3	4	4	0.40	6.01690105982419E-22	6.6E-11	0
CHEMRCTB	5000	5000	3	4	4	0.30	9.25992450055766E-20	1.3E-11	0
CHENHARK	5000	0	19	20	0	0.53	-2.00000238768422E+00	0.0E+00	0
CHNROSNB	50	0	42	60	0	0.01	1.53936886717734E-22	0.0E+00	0
CLIFF	2	0	23	24	0	0.00	2.07238011914422E-01	0.0E+00	0
CLNLBEAM	6003	4000	757	857	857	48.33	3.44876130222842E+02	2.4E-14	0
CLPLATEA	5041	0	6	8	0	0.54	-1.25920948451601E-02	0.0E+00	0
CLPLATEB	5041	0	3	4	0	0.38	-5.09478698772117E-03	0.0E+00	0
CLPLATEC	5041	0	2	3	0	0.36	-5.02072422684787E-03	0.0E+00	0
CLUSTER	2	2	9	10	10	0.00	0.00000000000000E+00	9.7E-12	0
CONGIGMZ	8	5	29	34	34	0.00	2.79999999124999E+01	1.4E-09	0
CONT5-QP	10301	10100	36	58	58	54.55	6.36396092954763E-03	1.5E-12	0
COOLHANS	9	9	9	10	10	0.00	0.00000000000000E+00	3.8E-13	0
CORKSCRW	5006	3500	488	499	499	19.06	8.18973353805673E+01	2.5E-09	0
COSHFUN	8001	2000	3000	54821	54821	372.84	7.12015690389955E+08	3.8E+04	1
COSINE	10000	0	12	13	0	1.08	-9.99900000000000E+03	0.0E+00	0
CRAGGLVY	5000	0	14	15	0	0.62	1.68821530971443E+03	0.0E+00	0
CRESC100	206	200	3000	18061	18063	16.00	6.96210335934027E+01	1.5E+04	12
CRESC132	2660	2654	3000	8488	8488	223.27	2.79805192757391E+00	4.8E+01	12
CRESC4	14	8	3000	23175	23175	1.02	3.92435068229170E+00	3.2E+00	12
CRESC50	106	100	3000	7896	7896	6.27	1.98046010298035E+00	6.6E+03	12
CSFI1	7	4	18	19	19	0.01	-4.90751993233192E+01	1.5E-09	0
CSFI2	7	4	26	58	58	0.01	5.50176063918109E+01	5.4E-09	0
CUBE	2	0	27	38	0	0.00	1.75356784253073E-24	0.0E+00	0
CUBENE	2	2	1	3	3	0.00	0.00000000000000E+00	4.4E-15	0
CURLY10	10000	0	22	23	0	5.76	-1.00316290241331E+06	0.0E+00	0
CURLY20	10000	0	26	27	0	16.06	-1.00316290241331E+06	0.0E+00	0
CURLY30	10000	0	30	31	0	33.68	-1.00316290241331E+06	0.0E+00	0
CVXBQP1	10000	0	12	13	0	13.03	2.25022456315260E+06	0.0E+00	0
CVXQP1	1000	500	19	20	20	2.25	1.08751156282451E+06	5.0E-16	0
CVXQP2	1000	250	16	17	17	0.57	8.20155426231716E+05	4.4E-16	0
CVXQP3	1000	750	21	24	24	8.79	1.36282873759654E+06	5.3E-16	0
DALLASL	906	667	40	41	41	0.47	-2.02601884496523E+05	1.4E-14	0
DALLASM	196	151	29	30	30	0.07	-4.81981882296683E+04	1.7E-14	0
DALLASS	46	31	28	29	29	0.02	-3.23932242970552E+04	7.1E-15	0
DECONVB	61	0	3000	5414	0	7.22	1.34091550918647E-09	0.0E+00	1
DECONVC	61	1	59	63	63	0.14	2.56948461263426E-03	2.1E-17	0
DECONVNE	61	40	2	3	3	0.28	0.00000000000000E+00	6.2E-12	0
DECONVU	61	0	300	402	0	0.66	3.77121107653384E-12	0.0E+00	0
DEGENLPA	20	15	27	34	34	0.00	3.05488090737661E+00	3.6E-17	0
DEGENLPB	20	15	31	45	45	0.01	-3.07639946746199E+01	6.1E-17	0
DEGENQP	125050	125025	11	12	12	28.18	3.13110729283763E-04	1.2E-14	0
DEMBO7	36	20	35	42	42	0.01	1.74786975841087E+02	6.0E-16	0
DEMYMALO	6	3	12	13	13	0.01	-3.00000000248229E+00	1.3E-15	0
DENSCHNA	2	0	6	7	0	0.01	1.10283709073358E-23	0.0E+00	0
DENSCHNB	2	0	7	21	0	0.01	9.86076131526265E-32	0.0E+00	0
DENSCHNC	2	0	10	11	0	0.00	2.17767937220575E-20	0.0E+00	0
DENSCHND	3	0	26	27	0	0.00	2.22189922609209E-04	0.0E+00	0
DENSCHNE	3	0	14	17	0	0.00	1.86055332802792E-17	0.0E+00	0
DENSCHNF	2	0	6	7	0	0.01	6.51380366247243E-22	0.0E+00	0
DIPIGRI	11	4	11	22	22	0.01	6.80630057364331E+02	3.7E-13	0
DISC2	35	23	29	79	79	0.02	1.56250000228704E+00	4.5E-09	0
DISCS	84	66	470	590	590	0.73	2.96742209100804E+01	4.0E+00	17
DITTERT	1133	1034	37	38	38	176.93	-1.99963711999468E+00	3.8E-13	0
DIXCHLNG	10	5	10	11	11	0.01	2.47189781091884E+03	4.4E-16	0
DIXCHLNV	1000	500	35	46	46	113.96	1.18081535806560E-16	1.9E-15	0
DIXMAANA	3000	0	7	8	0	0.21	1.00000000000000E+00	0.0E+00	0
DIXMAANB	3000	0	11	12	0	0.30	1.00000000000000E+00	0.0E+00	0
DIXMAANC	3000	0	9	10	0	0.25	1.00000000000000E+00	0.0E+00	0
DIXMAAND	3000	0	9	10	0	0.26	1.00000000000000E+00	0.0E+00	0
DIXMAANE	3000	0	10	11	0	0.26	1.00000000000000E+00	0.0E+00	0
DIXMAANF	3000	0	19	20	0	0.58	1.00000000000000E+00	0.0E+00	0
DIXMAANG	3000	0	16	17	0	0.48	1.00000000000000E+00	0.0E+00	0
DIXMAANH	3000	0	19	20	0	0.56	1.00000000000000E+00	0.0E+00	0
DIXMAANI	3000	0	18	21	0	0.47	1.00000000000000E+00	0.0E+00	0
DIXMAANJ	3000	0	20	21	0	0.62	1.00000000000001E+00	0.0E+00	0
DIXMAANK	15	0	13	14	0	0.01	1.00000000000000E+00	0.0E+00	0
DIXMAANL	3000	0	27	28	0	0.82	1.00000000000000E+00	0.0E+00	0
DIXON3DQ	10000	0	1	2	0	0.18	0.00000000000000E+00	0.0E+00	0
DJTL	2	0	788	856	0	0.04	-8.95154472374742E+03	0.0E+00	0
DNIEPER	61	24	30	31	31	0.02	1.87440097673883E+04	1.2E-09	0
DQDRTIC	5000	0	1	2	0	0.13	5.91645678915759E-29	0.0E+00	0
DQRTIC	5000	0	19	20	0	0.24	2.64157228652526E+04	0.0E+00	0
DRCAV1LQ	1225	0	70	93	0	4.65	1.39758134315126E-23	0.0E+00	0
DRCAV2LQ	1225	0	44	68	0	3.05	4.78195933193175E-05	0.0E+00	0
DRCAV3LQ	1225	0	152	302	0	12.96	1.71195509364179E-03	0.0E+00	0
DRCAVTY1	4489	3969	8	9	9	46.88	0.00000000000000E+00	6.2E-12	0
DRCAVTY2	4489	3969	12	23	23	59.71	0.00000000000000E+00	8.3E-14	0
DRUGDIS	6004	4000	110	119	119	10.31	4.27775337588692E+00	4.6E-11	0
DRUGDISE	603	500	343	1236	1236	3.45	4.04007968939940E+02	1.7E-16	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
DTOC1L	5998	3996	9	10	10	0.59	3.94304354550819E+00	6.1E-17	0
DTOC1NA	5998	3996	9	10	10	1.06	4.13886719978096E+00	2.2E-15	0
DTOC1NB	5998	3996	9	10	10	1.06	7.13884887045084E+00	2.8E-11	0
DTOC1NC	5998	3996	6	7	7	0.78	3.51993449191431E+01	2.2E-13	0
DTOC1ND	5998	3996	11	12	12	1.59	4.76030270285551E+01	1.6E-11	0
DTOC2	5998	3996	9	12	12	2.02	5.08676209675790E-01	1.7E-11	0
DTOC3	4499	2998	1	2	2	0.13	2.35216367917251E+02	2.5E-15	0
DTOC4	4499	2998	3	4	4	0.20	2.87224039413114E+00	5.1E-10	0
DTOC5	9999	4999	4	5	5	0.43	1.53511153221931E+00	2.0E-13	0
DTOC6	10001	5000	11	12	12	1.03	1.34850616258934E+05	1.1E-11	0
DUAL1	85	1	16	17	17	0.10	3.50129879764667E-02	6.0E-18	0
DUAL2	96	1	14	15	15	0.14	3.37336744589807E-02	3.0E-18	0
DUAL3	111	1	15	18	18	0.20	1.35755843943126E-01	3.0E-18	0
DUAL4	75	1	14	15	15	0.08	7.46090631779438E-01	2.6E-18	0
DUALC1	223	215	89	121	121	0.27	6.15521061724307E+03	2.3E-13	0
DUALC2	235	229	63	103	103	0.18	3.55130319455182E+03	2.3E-13	0
DUALC5	285	278	75	108	108	0.27	4.27232540221719E+02	1.1E-13	0
DUALC8	510	503	75	103	103	0.49	1.83093600710537E+04	2.3E-13	0
EDENSCH	2000	0	12	13	0	0.19	1.20032845920208E+04	0.0E+00	0
EG1	3	0	8	9	0	0.00	-1.42930676674376E+00	0.0E+00	0
EG2	1000	0	4	5	0	0.03	-9.98947393300970E+02	0.0E+00	0
EG3	3000	2000	229	401	401	7.74	6.74875712944170E-02	4.8E-10	0
EIGENA	110	110	23	26	26	0.19	3.84904509813787E-19	7.1E-09	0
EIGENA2	2550	1275	3	4	4	505.67	0.00000000000000E+00	0.0E+00	0
EIGENACO	2550	1275	3	4	4	764.99	0.00000000000000E+00	0.0E+00	0
EIGENALS	110	0	25	27	0	0.26	2.53326527784693E-24	0.0E+00	0
EIGENAU	2550	2550	1	2	2	424.05	0.00000000000000E+00	7.1E-15	0
EIGENB	110	110	87	111	111	0.93	0.00000000000000E+00	3.6E-12	0
EIGENB2	110	55	133	147	147	46.41	1.80147241231963E-22	6.2E-12	0
EIGENBCO	110	55	90	104	104	2.48	6.95850963253159E-30	6.1E-17	0
EIGENBLS	110	0	109	132	0	1.15	6.52432632566654E-26	0.0E+00	0
EIGENC	462	462	9	24	24	13.70	0.00000000000000E+00	5.1E-10	0
EIGENC2	462	231	16	17	17	17.08	9.67991394660375E-18	5.3E-10	0
EIGENCCO	462	231	25	40	40	45.74	4.87745470965439E-22	2.0E-12	0
EIGENCLS	462	0	181	216	0	127.07	2.07330268239493E-20	0.0E+00	0
EIGMAXA	101	101	22	27	27	0.04	-9.99999996098813E-01	4.5E-09	0
EIGMAXB	101	101	8	9	9	0.01	-9.67435416025559E-04	8.4E-13	0
EIGMAXC	202	202	10	16	16	0.82	-9.99999999999995E-01	1.0E-13	0
EIGMINA	101	101	22	27	27	0.02	9.99999996098813E-01	4.5E-09	0
EIGMINB	101	101	8	9	9	0.01	9.67435416025559E-04	8.4E-13	0
EIGMINC	202	202	14	17	17	0.95	9.74304960394897E-15	2.2E-13	0
ELATTAR	109	102	435	1660	1660	1.34	1.05411544525560E+00	1.6E-08	0
ELEC	600	200	187	252	252	671.66	1.84392274849014E+04	1.4E-12	0
ENGVAL1	5000	0	8	9	0	0.35	5.54866841941578E+03	0.0E+00	0
ENGVAL2	3	0	21	29	0	0.01	1.70035704972462E-20	0.0E+00	0
EQC	12	3	16	39	39	0.01	-8.67561350234956E+02	6.9E-17	18
ERRINBAR	19	9	47	57	57	0.01	2.80452550362994E+01	7.9E-09	0
ERRINROS	50	0	28	42	0	0.01	4.04044907285351E+01	0.0E+00	0
EXPFIT	2	0	8	9	0	0.01	2.40510593999058E-01	0.0E+00	0
EXPFITA	27	22	27	30	30	0.01	1.13670351089303E-03	1.8E-15	0
EXPFITB	107	102	54	123	123	0.07	5.01976920101750E-03	9.2E-15	0
EXPFITC	507	502	102	493	493	0.59	2.33033925513173E-02	6.4E-15	0
EXPLIN	1200	0	57	60	0	0.23	-7.19254847157178E+07	0.0E+00	0
EXPLIN2	1200	0	25	26	0	0.09	-7.19988343967923E+07	0.0E+00	0
EXPQUAD	1200	0	32	33	0	0.25	-3.68494055231081E+09	0.0E+00	0
EXTRASIM	2	1	6	7	7	0.01	9.99999992505904E-01	9.0E-17	0
EXTROSNB	1000	0	3000	4384	0	9.83	1.05534858279241E-09	0.0E+00	1
FCCU	19	8	9	10	10	0.00	1.11491091414845E+01	3.1E-15	0
FEEDLOC	330	259	48	52	52	0.16	2.96333500940426E-09	1.1E-13	0
FERRISDC	2200	210	12	13	13	329.23	-1.29292945515885E-04	3.4E-14	0
FLETCBV2	5000	0	1	2	0	0.18	-5.00286317511524E-01	0.0E+00	0
FLETCHCR	1000	0	1475	1679	0	5.48	7.94013153008237E-28	0.0E+00	0
FLETCHER	7	4	25	29	29	0.01	1.95253662034794E+01	1.3E-15	0
FLOSP2TH	2883	2763	65	171	171	61.81	0.00000000000000E+00	1.8E-06	0
FLOSP2TL	2883	2763	4	5	5	21.10	0.00000000000000E+00	2.5E-09	0
FLOSP2TM	2883	2763	9	10	10	28.60	0.00000000000000E+00	4.7E-08	0
FMINSRF2	5625	0	39	406	0	4.66	9.99999997372000E-01	0.0E+00	0
FMINSURF	1024	0	42	310	0	208.15	1.00000000353000E+00	0.0E+00	0
FREUROTH	5000	0	8	10	0	0.44	6.08159189046329E+05	0.0E+00	0
GASOIL	10403	10398	15	33	33	4.76	5.23659583335325E-03	1.6E-13	0
GAUSSELM	15277	14652	1105	1434	1434	1361.08	-3.25947287732172E+01	8.4E-10	0
GENHS28	10	8	1	2	2	0.00	9.27173693766391E-01	5.6E-16	0
GENHUMPS	5000	0	3000	3001	0	105.24	8.19688589599587E+07	0.0E+00	1
GENROSE	500	0	390	697	0	0.83	1.00000000000000E+00	0.0E+00	0
GIGOMEZ1	6	3	15	19	19	0.01	-3.00000000248229E+00	5.4E-16	0
GIGOMEZ2	6	3	9	10	10	0.00	1.95222448875867E+00	1.3E-10	0
GIGOMEZ3	6	3	8	9	9	0.00	1.99999999755067E+00	5.0E-11	0
GILBERT	5000	1	23	24	24	0.52	2.45946826541914E+03	1.7E-12	0
GLIDER	5214	4808	723	2206	2206	95.39	-1.24797431793152E+03	1.4E-11	0
GMNCASE1	475	300	14	21	21	1.20	2.66970705020018E-01	5.6E-17	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
GMNCASE2	1225	1050	12	13	13	1.23	-9.94446566148586E-01	4.4E-16	0
GMNCASE3	1225	1050	11	12	12	1.15	1.52514384935452E+00	2.2E-16	0
GMNCASE4	525	350	44	47	47	6.38	5.94688476905500E+03	8.7E-17	0
GOFFIN	101	50	10	11	11	0.08	1.15296046378948E-07	2.6E-17	0
GOTTFR	2	2	5	9	9	0.00	0.00000000000000E+00	2.2E-10	0
GOULDQP2	19999	9999	2	3	3	0.88	1.65596311135494E-12	4.4E-16	0
GOULDQP3	19999	9999	5	6	6	1.79	3.27947360433306E-05	4.3E-16	0
GPP	2998	1998	23	24	24	436.94	2.31918189068929E+05	2.6E-10	0
GRIDNETA	7564	3844	43	58	58	2.42	4.77979546452908E+02	7.8E-16	0
GRIDNETB	7564	3844	1	2	2	0.25	1.27614694587427E+02	3.3E-16	0
GRIDNETC	7564	3844	28	29	29	2.19	1.61870284666081E+02	4.4E-16	0
GRIDNETD	7564	3844	43	65	65	4.73	5.70711898909906E+02	8.9E-16	0
GRIDNETE	7564	3844	4	5	5	1.05	2.06480509161522E+02	6.7E-16	0
GRIDNETF	7564	3844	27	34	34	5.08	2.43542315787541E+02	4.4E-16	0
GRIDNETG	7564	3844	21	22	22	1.78	6.15784200003738E+02	1.6E-15	0
GRIDNETH	7564	3844	5	6	6	1.85	2.06480509161558E+02	4.4E-16	0
GRIDNETI	7564	3844	29	30	30	9.60	2.43542314056277E+02	4.4E-16	0
GROWTHLS	3	0	71	106	0	0.01	1.00404058410469E+00	0.0E+00	0
GULF	3	0	27	34	0	0.02	1.28849302165121E-20	0.0E+00	0
HADAMALS	400	0	327	329	0	89.30	1.36986120974768E+02	0.0E+00	0
HADAMARD	1201	1010	230	267	267	762.43	1.14916307190492E+00	8.2E-10	0
HAGER1	5001	2500	1	2	2	0.12	8.80797080777835E-01	5.2E-13	0
HAGER2	5001	2500	1	2	2	0.16	4.32082256804712E-01	4.7E-13	0
HAGER3	5001	2500	1	2	2	0.21	1.40961252777531E-01	5.0E-13	0
HAGER4	5001	2500	13	14	14	0.46	2.79408532563702E+00	2.1E-12	0
HAIFAL	9301	8958	165	172	172	59.23	-1.27999999698662E+01	9.6E-12	0
HAIFAM	249	150	41	49	49	0.11	-4.50003604512410E+01	5.9E-09	0
HAIFAS	22	9	8	9	9	0.00	-4.50000003557859E-01	7.2E-10	0
HAIRY	2	0	50	60	0	0.00	2.00000000000000E+01	0.0E+00	0
HALDMADS	48	42	121	175	175	0.09	3.41567552195780E-02	1.9E-12	0
HANGING	5930	2330	38	40	40	3.46	-3.14740607719504E+04	3.1E-10	0
HARKERP2	500	0	17	18	0	205.14	3.41648650429400E+00	0.0E+00	0
HART6	6	0	9	11	0	0.00	-3.32288689158932E+00	0.0E+00	0
HATFLDA	4	0	10	11	0	0.01	7.23573451664199E-16	0.0E+00	0
HATFLDB	4	0	10	11	0	0.00	5.57281177563774E-03	0.0E+00	0
HATFLDC	25	0	6	7	0	0.00	2.90829030815679E-17	0.0E+00	0
HATFLDD	3	0	21	23	0	0.00	6.61511391865759E-08	0.0E+00	0
HATFLDE	3	0	20	21	0	0.01	5.12037693662775E-07	0.0E+00	0
HATFLDF	3	3	125	1641	1641	0.02	0.00000000000000E+00	9.9E-14	0
HATFLDG	25	25	7	22	22	0.01	0.00000000000000E+00	3.7E-12	0
HATFLDH	11	7	18	19	19	0.00	-2.45000003447518E+01	1.8E-15	0
HEART6	6	6	19	73	73	0.01	0.00000000000000E+00	2.4E-11	0
HEART6LS	6	0	886	1050	0	0.11	5.46786331844311E-29	0.0E+00	0
HEART8	8	8	49	73	73	0.02	0.00000000000000E+00	3.1E-14	0
HEART8LS	8	0	106	133	0	0.02	2.49764224837859E-29	0.0E+00	0
HELIX	3	0	13	17	0	0.00	6.05769906374145E-25	0.0E+00	0
HELSBY	1408	1399	36	37	37	0.71	3.19423563264514E+01	9.7E-12	0
HET-Z	1004	1002	14	21	21	0.12	9.99999992507180E-01	2.2E-16	0
HIELOW	3	0	8	9	0	0.15	8.74165432114969E+02	0.0E+00	0
HILBERTA	2	0	1	2	0	0.01	3.94430454977088E-31	0.0E+00	0
HILBERTB	10	0	1	2	0	0.00	9.08203115310497E-30	0.0E+00	0
HIMMELBA	2	2	1	2	2	0.00	0.00000000000000E+00	0.0E+00	0
HIMMELBB	2	0	18	22	0	0.01	1.40139644673157E-17	0.0E+00	0
HIMMELBC	2	2	6	9	9	0.00	0.00000000000000E+00	0.0E+00	0
HIMMELBE	3	3	2	3	3	0.01	0.00000000000000E+00	0.0E+00	0
HIMMELBF	4	0	75	85	0	0.01	3.18571748791124E+02	0.0E+00	0
HIMMELBG	2	0	6	10	0	0.01	3.63299957271117E-22	0.0E+00	0
HIMMELBH	2	0	4	20	0	0.00	-1.00000000000000E+00	0.0E+00	0
HIMMELBI	112	12	25	26	26	0.03	-1.73556957970871E+03	9.0E-15	0
HIMMELBJ	45	14	99	1101	915	0.17	-1.90455499517334E+03	2.3E-08	18
HIMMELBK	24	14	18	19	19	0.02	5.18143645610689E-02	1.6E-16	0
HIMMELP1	2	0	11	12	0	0.00	-6.20539355338258E+01	0.0E+00	0
HIMMELP2	3	1	18	20	20	0.00	-8.19804421082369E+00	9.8E-13	0
HIMMELP3	4	2	13	14	14	0.00	-5.90131784823736E+01	1.5E-11	0
HIMMELP4	5	3	24	25	25	0.01	-5.90131784823715E+01	3.0E-11	0
HIMMELP5	5	3	56	110	110	0.01	-5.90131784823713E+01	3.1E-11	0
HIMMELP6	7	5	24	32	32	0.00	-5.90131784823711E+01	3.1E-11	0
HONG	4	1	9	10	10	0.00	2.25710873634890E+01	2.8E-17	0
HS1	2	0	25	33	0	0.00	5.82781354654445E-16	0.0E+00	0
HS10	3	1	12	13	13	0.01	-1.00000000249239E+00	3.4E-12	0
HS100	11	4	11	22	22	0.00	6.80630057364331E+02	3.7E-13	0
HS100LNP	7	2	20	21	21	0.01	6.80630057374402E+02	1.6E-14	0
HS100MOD	11	4	10	29	29	0.00	6.78679637879699E+02	2.8E-14	0
HS101	12	5	49	130	130	0.02	1.80976468450753E+03	9.1E-13	0
HS102	12	5	22	25	25	0.02	9.11880533675475E+02	1.8E-12	0
HS103	12	5	28	34	34	0.02	5.43667936730445E+02	7.7E-12	0
HS104	13	5	8	9	9	0.00	3.95116334675068E+00	1.1E-11	0
HS105	9	1	18	21	21	0.05	1.04461169050025E+03	2.0E-17	0
HS106	14	6	16	17	17	0.00	7.04924789769651E+03	5.0E-11	0
HS107	9	6	10	11	11	0.00	5.05501179435628E+03	1.6E-13	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
HS108	22	13	16	17	17	0.01	-6.74981434615857E-01	6.3E-10	0
HS109	13	10	179	2247	2247	0.06	5.36206916120886E+03	7.0E-10	0
HS11	3	1	9	10	10	0.00	-8.49846425114183E+00	2.2E-14	0
HS110	200	0	15	17	0	0.53	-9.96009555441355E+39	0.0E+00	0
HS111	10	3	15	16	16	0.01	-4.77610908599577E+01	2.6E-11	0
HS111LNP	10	3	15	16	16	0.01	-4.77610908643143E+01	2.2E-10	0
HS112	10	3	18	19	19	0.01	-4.77610908593659E+01	5.2E-17	0
HS113	18	8	11	12	12	0.01	2.43062090432168E+01	4.8E-11	0
HS114	18	11	19	20	20	0.01	-1.76880715169952E+03	6.8E-12	0
HS116	27	14	25	38	38	0.00	9.75874731631617E+01	6.2E-14	0
HS117	20	5	28	30	30	0.01	3.23486776078289E+01	1.0E-09	0
HS118	32	17	11	12	12	0.00	6.64820449083769E+02	7.1E-15	0
HS119	16	8	12	13	13	0.01	2.44899695741901E+02	1.6E-16	0
HS12	3	1	9	10	10	0.00	-3.00000000024940E+01	1.4E-13	0
HS13	3	1	32	39	39	0.00	9.94578534829775E-01	5.7E-19	0
HS14	3	2	8	9	9	0.01	1.39346496473126E+00	2.9E-13	0
HS15	4	2	17	22	22	0.01	3.06499975610593E+02	5.2E-14	0
HS16	4	2	11	12	12	0.00	2.31466600639743E+01	1.3E-14	0
HS17	4	2	18	19	19	0.00	9.99999985385258E-01	3.1E-11	0
HS18	4	2	15	19	19	0.00	5.00000000050463E+00	3.1E-11	0
HS19	4	2	15	16	16	0.01	-6.96181389881659E+03	1.1E-14	0
HS2	2	0	12	14	0	0.00	4.94122934055718E+00	0.0E+00	0
HS20	5	3	14	15	15	0.01	3.81987271536947E+01	1.2E-15	0
HS21	3	1	8	9	9	0.00	-9.99599999983451E+01	3.6E-15	0
HS21MOD	8	1	16	17	17	0.01	-9.59600000752180E+01	3.6E-15	0
HS22	4	2	6	7	7	0.01	9.99999991689898E-01	3.6E-12	0
HS23	7	5	10	12	12	0.01	1.99999996496722E+00	7.1E-12	0
HS24	5	3	12	14	14	0.00	-1.00000009134597E+00	9.3E-17	0
HS25	3	0	36	40	0	0.02	1.03460408499234E-15	0.0E+00	0
HS26	3	1	25	26	26	0.00	1.29138380481736E-16	6.4E-09	0
HS268	10	5	16	17	17	0.01	6.42779923509806E-07	3.6E-15	0
HS27	3	1	57	186	186	0.01	3.99999999999338E-02	1.7E-12	0
HS28	3	1	1	2	2	0.01	3.08148791101958E-31	5.6E-16	0
HS29	4	1	9	10	10	0.01	-2.26274170025348E+01	2.8E-14	0
HS3	2	0	5	6	0	0.01	-7.49409610087305E-09	0.0E+00	0
HS30	4	1	8	12	12	0.01	9.99999992748399E-01	2.4E-11	0
HS31	4	1	8	9	9	0.00	5.99999994250527E+00	4.4E-15	0
HS32	4	2	16	20	20	0.01	9.99999963023155E-01	4.0E-14	0
HS33	5	2	13	16	16	0.01	-4.58578654365278E+00	1.3E-11	0
HS34	5	2	9	10	10	0.00	-8.34032446787320E-01	4.4E-10	0
HS35	4	1	7	8	8	0.01	1.11111111435562E-01	5.6E-17	0
HS35I	4	1	7	8	8	0.00	1.11111111456665E-01	1.2E-16	0
HS35MOD	4	1	15	16	16	0.01	2.50000002215758E-01	9.4E-17	0
HS36	4	1	13	14	14	0.01	-3.30000002089248E+03	1.8E-15	0
HS37	5	2	12	13	13	0.01	-3.45600000143749E+03	1.7E-15	0
HS38	4	0	40	50	0	0.00	3.34111186839989E-19	0.0E+00	0
HS39	4	2	13	14	14	0.01	-1.00000000000314E+00	1.7E-12	0
HS3MOD	2	0	6	7	0	0.01	-7.49409610087305E-09	0.0E+00	0
HS4	2	0	6	7	0	0.00	2.66666661901266E+00	0.0E+00	0
HS40	4	3	3	4	4	0.00	-2.50000000082290E-01	1.9E-10	0
HS41	4	1	9	14	14	0.00	1.92592592614761E+00	0.0E+00	0
HS42	4	2	4	5	5	0.01	1.38578643762691E+01	2.2E-16	0
HS43	7	3	9	10	10	0.01	-4.40000000249944E+01	1.7E-12	0
HS44	10	6	18	21	21	0.01	-1.30000001049786E+01	8.9E-16	0
HS44NEW	10	6	15	16	16	0.01	-1.50000001399790E+01	8.9E-16	0
HS45	5	0	7	8	0	0.01	9.99999962880972E-01	0.0E+00	0
HS46	5	2	19	20	20	0.00	8.55335308597303E-16	7.3E-09	0
HS47	5	3	19	21	21	0.01	6.57516040801187E-14	1.6E-09	0
HS48	5	2	1	2	2	0.00	7.88860905221012E-31	8.9E-16	0
HS49	5	2	19	20	20	0.00	1.05999612366097E-11	0.0E+00	0
HS5	2	0	8	9	0	0.01	-1.91322295498104E+00	0.0E+00	0
HS50	5	3	9	10	10	0.01	0.00000000000000E+00	0.0E+00	0
HS51	5	3	1	2	2	0.00	4.93038065763132E-32	2.2E-16	0
HS52	5	3	1	2	2	0.00	5.32664756446991E+00	2.2E-16	0
HS53	5	3	7	8	8	0.00	4.09302325581395E+00	1.4E-17	0
HS54	6	1	15	16	16	0.01	-9.08074757485779E-01	7.2E-13	0
HS55	6	6	8	9	9	0.00	6.77451335235378E+00	1.6E-09	0
HS56	7	4	10	11	11	0.01	-3.45600000000009E+00	6.2E-14	0
HS57	3	1	21	23	23	0.01	3.06476190476193E-02	9.1E-09	0
HS59	5	3	34	54	54	0.01	-7.80278940150583E+00	3.4E-13	0
HS6	2	1	5	7	7	0.01	0.00000000000000E+00	0.0E+00	0
HS60	3	1	7	8	8	0.00	3.25682002859705E-02	2.2E-16	0
HS61	3	2	9	10	10	0.00	-1.43646142197801E+02	9.1E-12	0
HS62	3	1	8	12	12	0.01	-2.62725146479716E+04	2.1E-17	0
HS63	3	2	8	9	9	0.01	9.61715172130052E+02	9.7E-14	0
HS64	4	1	17	18	18	0.01	6.29984240872953E+03	6.7E-12	0
HS65	4	1	15	16	16	0.00	9.53528857674822E-01	2.7E-12	0
HS66	5	2	7	8	8	0.01	5.18163270189035E-01	1.1E-09	0
HS68	4	2	18	24	24	0.01	-9.20425003702461E-01	5.1E-17	0
HS69	4	2	12	13	13	0.01	-9.56712886650033E+02	6.5E-14	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
HS7	2	1	27	58	58	0.01	-1.73205080756895E+00	2.5E-13	0
HS70	5	1	30	46	46	0.02	7.49846365723950E-03	1.3E-15	0
HS71	5	2	8	9	9	0.00	1.70140172777257E+01	1.1E-10	0
HS72	6	2	16	17	17	0.00	7.27678866178128E+02	1.2E-12	0
HS73	6	3	8	9	9	0.00	2.98943781544154E+01	6.1E-12	0
HS74	6	5	10	11	11	0.00	5.12649810995536E+03	7.1E-14	0
HS75	6	5	11	12	12	0.00	5.17441266785376E+03	1.1E-13	0
HS76	7	3	7	8	8	0.01	-4.68181819861691E+00	3.7E-16	0
HS76I	7	3	7	8	8	0.00	-4.68181819861841E+00	3.4E-16	0
HS77	5	2	11	13	13	0.00	2.41505128288589E-01	2.3E-10	0
HS78	5	3	4	5	5	0.00	-2.91970040896966E+00	5.6E-12	0
HS79	5	3	4	5	5	0.01	7.87768210794991E-02	3.9E-09	0
HS8	2	2	5	6	6	0.00	-1.00000000000000E+00	1.3E-10	0
HS80	5	3	7	8	8	0.01	5.39498477659768E-02	7.7E-11	0
HS81	5	3	7	8	8	0.01	5.39498477661303E-02	7.4E-11	0
HS83	8	3	17	18	18	0.01	-3.06655391288261E+04	1.4E-14	0
HS84	8	3	15	16	16	0.00	-5.28033524404038E+06	4.6E-09	0
HS86	15	10	10	11	11	0.00	-3.23486791529182E+01	1.0E-16	0
HS88	3	1	16	18	18	0.02	1.36264622017318E+00	1.3E-14	0
HS89	4	1	20	37	37	0.04	1.36264622017329E+00	1.3E-14	0
HS9	2	1	3	13	13	0.01	-5.00000000000068E-01	3.6E-12	0
HS90	5	1	21	28	28	0.06	1.36264622016857E+00	1.3E-14	0
HS91	6	1	14	15	15	0.06	1.36264622017316E+00	1.3E-14	0
HS92	7	1	19	25	25	0.08	1.36264622001686E+00	1.3E-14	0
HS93	8	2	9	10	10	0.00	1.35075962451705E+02	2.8E-14	0
HS95	10	4	24	32	32	0.01	1.56177329107417E-02	2.2E-09	0
HS96	10	4	18	19	19	0.01	1.56177329152460E-02	2.2E-09	0
HS97	10	4	17	18	18	0.01	4.07124082381085E+00	7.1E-11	0
HS98	10	4	22	23	23	0.00	4.07124082380779E+00	7.1E-11	0
HS99	7	2	6	7	7	0.00	-8.31079891510107E+08	2.0E-10	0
HS99EXP	31	21	19	20	20	0.00	-1.26000625000000E+12	1.7E-07	0
HUBFIT	3	1	8	9	9	0.00	1.68934937245520E-02	1.7E-17	0
HUES-MOD	5000	2	29	30	30	0.88	3.48244898197365E+07	2.7E-15	0
HUESTIS	5000	2	27	28	28	0.73	1.74122449098681E+11	1.5E-15	0
HUMPS	2	0	709	734	0	0.05	3.21402682685778E-19	0.0E+00	0
HVYCRASH	4004	3000	760	1390	1390	51.82	-1.54042500000000E-01	8.4E-09	18
HYDC20LS	99	0	759	1025	0	1.67	8.72070799048854E-02	0.0E+00	0
HYDCAR20	99	99	9	12	12	0.03	0.00000000000000E+00	5.5E-14	0
HYDCAR6	29	29	5	9	9	0.01	0.00000000000000E+00	3.9E-12	0
HYDROELL	2017	1008	235	236	236	2.63	-3.58554680003810E+06	1.8E-13	0
HYDROELM	1009	504	210	211	211	1.10	-3.58201549714903E+06	9.2E-14	0
HYDROELS	337	168	121	122	122	0.21	-3.58226830126735E+06	3.0E-14	0
HYPCIR	2	2	5	8	8	0.00	0.00000000000000E+00	6.8E-13	0
INTEGREQ	502	500	3	4	4	28.09	0.00000000000000E+00	2.5E-15	0
JANNSON3	20002	3	17	18	18	4.75	1.99985180414340E+04	1.2E-09	0
JANNSON4	10002	2	14	15	15	1.51	9.80197044309787E+03	1.6E-16	0
JENSMP	2	0	9	10	0	0.00	1.24362182355615E+02	0.0E+00	0
JIMACK	3549	0	18	19	0	110.42	8.66793295733576E-01	0.0E+00	0
JNLBRNG1	10000	0	16	25	0	2.80	-1.80565292883363E-01	0.0E+00	0
JNLBRNG2	10000	0	15	16	0	2.64	-4.14864291518541E+00	0.0E+00	0
JNLBRNGA	10000	0	15	16	0	2.41	-2.71092540593170E-01	0.0E+00	0
JNLBRNGB	10000	0	15	16	0	2.41	-6.30068246216324E+00	0.0E+00	0
KISSING	988	903	347	400	400	11.17	8.44453780925669E-01	2.2E-09	0
KISSING2	725	625	283	388	388	5.20	6.79864973304898E+00	3.6E-15	0
KIWCRESC	5	2	9	11	11	0.01	-4.98733761811771E-09	1.7E-12	0
KOWOSB	4	0	8	15	0	0.01	3.07800946733321E-04	0.0E+00	0
KSIP	1021	1001	30	72	72	1.05	5.75797920882351E-01	7.1E-17	0
KTMODEL	726	450	3000	57647	58205	51.20	-4.21035841688165E-18	3.8E+09	12
LAKES	90	78	18	33	33	0.01	3.50525022890038E+05	2.2E-11	0
LAUNCH	44	28	23	27	27	0.02	9.00490179783209E+00	9.5E-11	0
LCH	3000	1	58	59	59	3.56	-4.34194418962734E+00	1.9E-09	0
LEAKNET	156	153	19	24	24	0.04	8.04551821512682E+00	8.5E-14	0
LIARWHD	5000	0	12	13	0	0.40	6.38077547781598E-22	0.0E+00	0
LIN	4	2	8	9	9	0.01	-1.75775431762168E-02	0.0E+00	0
LINSPANH	97	33	16	18	18	0.01	-7.70000454733668E+01	6.1E-13	0
LINVERSE	1999	0	645	1907	0	13.46	6.81000000853242E+02	0.0E+00	0
LISWET1	4002	2000	19	20	20	0.43	7.09678019266021E+00	3.8E-16	0
LISWET10	4002	2000	33	46	46	0.76	9.79634781574625E+00	4.2E-16	0
LISWET11	4002	2000	30	31	31	0.66	9.88013756286894E+00	3.5E-16	0
LISWET12	4002	2000	24	27	27	0.56	3.46994613665760E+02	3.7E-16	0
LISWET2	4002	2000	29	53	53	0.68	4.99803777845275E+00	2.1E-16	0
LISWET3	4002	2000	33	56	56	0.74	4.99777715772053E+00	2.7E-16	0
LISWET4	4002	2000	33	46	46	0.74	4.99781396494456E+00	2.7E-16	0
LISWET5	4002	2000	32	54	54	0.73	4.99783236772938E+00	8.0E-16	0
LISWET6	4002	2000	35	89	89	0.84	4.99789482412705E+00	2.4E-16	0
LISWET7	4002	2000	16	17	17	0.38	9.89781870247275E+01	2.0E-16	0
LISWET8	4002	2000	24	27	27	0.55	1.42605321561853E+02	3.6E-16	0
LISWET9	4002	2000	26	27	27	0.58	3.92400418305353E+02	1.9E-16	0
LMINSURF	5625	0	49	213	0	4.42	8.99999997586752E+00	0.0E+00	0
LOADBAL	51	31	15	20	20	0.01	4.52851064055714E-01	1.8E-12	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
LOGHAIRY	2	0	563	585	0	0.04	1.82321556793955E-01	0.0E+00	0
LOGROS	2	0	64	97	0	0.00	-4.48664639844451E-29	0.0E+00	16
LOOTSMA	5	2	19	24	24	0.00	1.41421345634723E+00	1.3E-11	0
LOTSCHD	12	7	14	15	15	0.01	2.39841583748962E+03	1.0E-14	0
LSNNODOC	5	4	12	17	17	0.00	2.85165716845831E+02	6.0E-16	0
LSQFIT	3	1	7	8	8	0.00	3.37869882485480E-02	1.7E-17	0
LUKVLE1	10000	9998	6	7	7	1.67	6.23245863243799E+00	8.4E-12	0
LUKVLE10	10000	9998	13	21	21	2.39	3.53510297025475E+03	5.0E-11	0
LUKVLE11	9998	6664	3000	40915	40915	694.94	5.48384766517082E+08	7.5E+00	1
LUKVLE12	9997	7497	31	104	104	227.92	1.92911789830559E+05	3.3E-16	0
LUKVLE13	9998	6664	18	19	19	2.83	9.15715712337175E+04	2.7E-15	0
LUKVLE14	9998	6664	21	22	22	2.61	3.13811198548425E+08	1.3E-14	0
LUKVLE15	9997	7497	—	—	—	—	---	---	-1
LUKVLE16	9997	7497	145	989	987	24.36	2.38796652182722E+04	1.5E+00	17
LUKVLE17	9997	7497	161	978	978	43.86	3.37479824372111E+04	5.3E-10	0
LUKVLE18	9997	7497	3000	5058	5058	775.51	1.11506671564602E+04	1.0E-08	1
LUKVLE3	10000	2	9	10	10	0.81	2.75865837567046E+01	2.4E-15	0
LUKVLE5	10002	9996	18	22	22	6.22	6.63928371723579E+00	1.3E-13	0
LUKVLE6	9999	4999	15	16	16	4.38	6.28644076318265E+05	2.9E-09	0
LUKVLE7	10000	4	11	20	20	0.77	-2.16507109300326E+03	1.5E-13	0
LUKVLE8	10000	9998	42	70	50	7.51	1.41375396642058E+06	4.4E-16	0
LUKVLE9	10000	6	17	27	26	0.80	1.00015835003526E+03	1.9E-11	0
LUKVLI1	19998	9998	3000	4081	4081	682.06	7.72203376854831E+03	3.0E-01	1
LUKVLI10	19998	9998	—	—	—	—	---	---	-1
LUKVLI11	16662	6664	26	27	27	4.32	5.59370265341495E-06	7.4E-09	0
LUKVLI12	17494	7497	98	264	264	19.23	1.03715307623284E-07	2.2E-10	0
LUKVLI13	16662	6664	34	35	35	5.54	1.32185468857559E+02	3.1E-15	0
LUKVLI14	16662	6664	39	40	40	5.96	1.56415024837377E+04	8.0E-12	0
LUKVLI15	17494	7497	158	169	169	35.59	1.54263018772169E-02	1.3E-10	0
LUKVLI16	17494	7497	44	45	45	7.49	2.96854980937747E+03	3.1E-09	0
LUKVLI17	17494	7497	56	57	57	8.93	7.80508478319672E+02	3.6E-10	0
LUKVLI18	17494	7497	28	30	30	4.15	5.86857532680325E-06	4.1E-09	0
LUKVLI3	10002	2	19	20	20	6.08	1.15775416231917E+01	4.7E-13	0
LUKVLI5	19998	9996	37	38	38	11.26	4.89012966528846E-01	8.4E-12	0
LUKVLI6	14998	4999	13	14	14	3.48	6.28644149879417E+05	1.7E-10	0
LUKVLI7	10004	4	23	24	24	1.23	-2.16840425004257E+03	1.4E-14	0
LUKVLI8	19998	9998	34	35	35	8.62	1.03049813002053E+06	1.1E-14	0
LUKVLI9	10006	6	33	60	60	1.34	9.98933076077747E+02	9.6E-09	0
MADSEN	9	6	20	25	25	0.00	6.16432430473596E-01	1.1E-10	0
MADSSCHJ	599	398	58	127	127	50.79	-4.99213390264787E+03	2.2E-11	0
MAKELA1	5	2	18	19	19	0.00	-1.41421356734677E+00	1.6E-11	0
MAKELA2	6	3	8	9	9	0.00	7.19999999501054E+00	8.7E-13	0
MAKELA3	41	20	17	18	18	0.01	4.01182069753085E-08	1.4E-20	0
MAKELA4	61	40	8	9	9	0.01	9.02366855273182E-08	2.2E-20	0
MANCINO	100	0	14	15	0	2.54	5.72585140594395E-22	0.0E+00	0
MANNE	10000	4000	1723	7089	7089	201.04	-9.73549434125050E-01	2.0E+03	0
MARATOS	2	1	4	5	5	0.00	-1.00000000000000E+00	1.8E-15	0
MARATOSB	2	0	671	979	0	0.03	-1.00000006249999E+00	0.0E+00	0
MARINE	11215	11192	55	82	82	18.31	1.97465296436658E+07	3.6E-12	0
MATRIX2	8	2	20	21	21	0.00	5.10541382385476E-09	1.0E-13	0
MAXLIKA	8	0	27	31	0	0.06	1.13630729689169E+03	0.0E+00	0
MCCORMCK	5000	0	8	9	0	0.43	-4.56658055281184E+03	0.0E+00	0
MDHOLE	2	0	44	65	0	0.01	-2.26166081558029E-09	0.0E+00	0
METHANB8	31	31	3	4	4	0.01	0.00000000000000E+00	1.3E-13	0
METHANL8	31	31	4	5	5	0.01	0.00000000000000E+00	3.7E-11	0
METHANOL	12005	11997	16	17	17	6.39	9.02229235439193E-03	1.8E-12	0
MEXHAT	2	0	26	30	0	0.01	-4.00999993226829E-02	0.0E+00	0
MEYER3	3	0	172	257	0	0.02	8.79458551709294E+01	0.0E+00	0
MIFFLIN1	5	2	6	7	7	0.01	-1.00000000498819E+00	5.4E-16	0
MIFFLIN2	5	2	15	16	16	0.00	-1.00000000498193E+00	4.8E-11	0
MINC44	1113	1032	41	46	46	149.36	3.82864169062000E-04	5.7E-09	0
MINMAXBD	25	20	32	47	47	0.01	1.15706439676769E+02	3.1E-13	0
MINMAXRB	7	4	10	12	12	0.00	2.36196698880981E-11	3.0E-19	0
MINPERM	1113	1033	7	8	8	54.58	3.62880000000000E-04	1.4E-17	0
MINSURF	64	0	4	13	0	0.01	1.00000000170000E+00	0.0E+00	0
MINSURFO	5306	0	64	165	0	5.66	2.50695142511249E+00	0.0E+00	0
MISTAKE	22	13	14	15	15	0.01	-1.00000000280667E+00	5.4E-09	0
MODBEALE	20000	0	9	10	0	2.35	1.46164432822925E-22	0.0E+00	0
MOREBV	5000	0	1	2	0	0.14	5.84156510781610E-15	0.0E+00	0
MOSARQP1	3200	700	18	19	19	0.38	-3.82140987183553E+03	2.2E-16	0
MOSARQP2	3200	700	14	15	15	0.30	-5.05259199124807E+03	4.4E-16	0
MRIBASIS	82	55	34	43	43	0.04	1.82178998203281E+01	5.7E-14	0
MSQRTA	1024	1024	5	9	9	80.65	0.00000000000000E+00	1.9E-14	0
MSQRTALS	1024	0	24	31	0	244.57	4.22371935701474E-16	0.0E+00	0
MSQRTB	1024	1024	5	9	9	80.23	0.00000000000000E+00	8.3E-14	0
MSQRTBLS	1024	0	24	34	0	237.00	1.36518718678770E-21	0.0E+00	0
MSS1	90	73	1292	1487	1487	9.50	-1.59999999999989E+01	1.1E-11	0
MSS2	756	703	47	75	75	565.96	-2.70000000158305E+01	5.9E-10	0
MSS3	2070	1981	—	—	—	—	---	---	-1
MWRIGHT	5	3	10	11	11	0.01	2.49788095388613E+01	4.4E-16	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
NCB20	5010	0	105	126	0	29.13	-1.46471995780134E+03	0.0E+00	0
NCB20B	5000	0	16	21	0	5.66	7.35130058494224E+03	0.0E+00	0
NCVXBQP1	10000	0	144	145	0	157.56	-1.98554388538268E+10	0.0E+00	0
NCVXBQP2	10000	0	455	457	0	795.51	-1.33151049596543E+10	0.0E+00	0
NCVXBQP3	10000	0	741	742	0	1257.62	-6.43765245463444E+09	0.0E+00	0
NCVXQP1	1000	500	188	195	195	41.71	-7.15130941183985E+07	4.9E-16	0
NCVXQP2	1000	500	239	244	244	57.51	-5.77882486724167E+07	5.3E-16	0
NCVXQP3	1000	500	290	293	293	76.25	-3.05368867790383E+07	5.1E-16	0
NCVXQP4	1000	250	193	195	195	13.77	-9.39737701062934E+07	5.1E-16	0
NCVXQP5	1000	250	229	230	230	16.11	-6.62528688044203E+07	4.4E-16	0
NCVXQP6	1000	250	301	302	302	21.18	-3.40801269670347E+07	5.0E-16	0
NCVXQP7	1000	750	178	179	179	160.44	-4.34198283836243E+07	5.3E-16	0
NCVXQP8	1000	750	209	213	213	198.96	-3.03761980159922E+07	5.0E-16	0
NCVXQP9	1000	750	207	208	208	196.67	-2.15192497430528E+07	5.0E-16	0
NGONE	5248	5048	47	65	65	5.42	-6.35969149456535E-01	6.9E-12	0
NLMSURF	5625	0	42	189	0	3.81	3.89489848128164E+01	0.0E+00	0
NOBNDTOR	5476	0	15	23	0	1.18	-4.49931044843779E-01	0.0E+00	0
NONCVXU2	1000	0	407	450	0	152.45	2.31705847574957E+03	0.0E+00	0
NONCVXUN	5000	0	2511	2762	0	235.62	1.15958304516868E+04	0.0E+00	0
NONDIA	5000	0	7	8	0	0.31	5.22613484430109E-13	0.0E+00	0
NONDQUAR	5000	0	19	20	0	3.25	2.06947680705295E-10	0.0E+00	0
NONMSQRT	1024	0	622	1850	0	51.08	8.99051091363319E+01	0.0E+00	16
NONSCOMP	5000	0	23	40	0	0.73	4.32295667158813E-06	0.0E+00	0
NUFFIELD	5940	5000	3000	4745	4745	2212.91	-1.87344956763793E+00	2.3E-01	12
OBSTCLAE	10000	0	18	26	0	3.03	1.88647249591882E+00	0.0E+00	0
OBSTCLAL	10000	0	19	31	0	3.15	1.88647246975572E+00	0.0E+00	0
OBSTCLBL	10000	0	16	25	0	2.80	7.27216200706843E+00	0.0E+00	0
OBSTCLBM	10000	0	14	22	0	2.44	7.27216202341248E+00	0.0E+00	0
OBSTCLBU	10000	0	17	26	0	2.91	7.27216200522289E+00	0.0E+00	0
ODC	5184	0	160	161	0	11.54	-1.13717969408199E-02	0.0E+00	0
ODFITS	10	6	11	12	12	0.00	-2.38002677540308E+03	1.1E-13	0
ODNAMUR	11130	0	—	—	—	—	---	---	-1
OET1	1005	1002	47	88	88	0.38	5.38243116832916E-01	4.4E-16	0
OET2	1005	1002	129	152	152	1.11	8.71596342816755E-02	3.7E-13	0
OET3	1006	1002	16	32	32	0.14	4.50505320943588E-03	1.2E-17	0
OET4	1006	1002	54	96	96	0.65	4.29542386398952E-03	5.6E-16	0
OET5	1007	1002	116	129	129	1.29	2.65008032707321E-03	1.5E-14	0
OET6	1007	1002	77	83	83	1.09	2.06973986955812E-03	3.4E-11	0
OET7	1009	1002	176	305	305	3.69	4.45414033646815E-05	2.1E-10	0
OPTCDEG2	4502	3000	36	56	56	1.13	2.27702325374901E+02	7.3E-10	0
OPTCDEG3	4502	3000	29	30	30	0.94	4.57901497853732E+01	1.8E-09	0
OPTCNTRL	32	20	33	43	43	0.01	5.49999998838770E+02	1.4E-15	0
OPTCTRL3	4502	3000	11	13	13	0.54	7.44650301168463E+04	1.3E-10	0
OPTCTRL6	4502	3000	11	13	13	0.52	7.44650301168463E+04	1.3E-10	0
OPTMASS	3511	2505	35	36	36	1.27	-1.21524497539063E-01	1.7E-11	0
OPTPRLOC	60	30	18	19	19	0.01	-1.64197739353722E+01	1.0E-09	0
ORTHRDM2	8003	4000	6	8	8	1.75	3.11015311623213E+02	1.4E-13	0
ORTHRDS2	5003	2500	31	89	89	2.97	7.62465288437156E+02	3.0E-12	18
ORTHREGA	8197	4096	78	146	146	19.54	2.26478419052580E+04	8.5E-16	0
ORTHREGB	27	6	2	3	3	0.01	4.52460763165820E-20	2.0E-10	0
ORTHREGC	5005	2500	12	19	19	1.97	9.48146496347746E+01	1.4E-10	0
ORTHREGD	5003	2500	6	10	10	0.86	7.62064321930886E+02	1.2E-12	0
ORTHREGE	7506	5000	112	355	355	19.72	1.19805934745306E+03	1.2E-05	18
ORTHREGF	4805	1600	71	126	126	6.30	7.09528629749636E+01	2.2E-12	0
ORTHRGDM	10003	5000	6	9	9	2.50	1.51380232365081E+03	9.2E-11	0
ORTHRGDS	5003	2500	27	30	30	2.84	7.62064321930907E+02	1.2E-09	0
OSBORNEA	5	0	64	92	0	0.01	5.46489469748286E-05	0.0E+00	0
OSBORNEB	11	0	19	21	0	0.02	4.01377362935477E-02	0.0E+00	0
OSLBQP	8	0	14	15	0	0.01	6.24999990359298E+00	0.0E+00	0
PALMER1	4	0	528	765	0	0.06	1.17546025416455E+04	0.0E+00	0
PALMER1A	6	0	45	55	0	0.01	8.98830583654779E-02	0.0E+00	0
PALMER1B	4	0	20	22	0	0.01	3.44734948330802E+00	0.0E+00	0
PALMER1C	8	0	1	2	0	0.00	9.76050481144449E-02	0.0E+00	0
PALMER1D	7	0	1	2	0	0.00	6.52673984980618E-01	0.0E+00	0
PALMER1E	8	0	34	44	0	0.02	8.35235371038420E-04	0.0E+00	0
PALMER2	4	0	774	1133	0	0.07	3.65109753197530E+03	0.0E+00	0
PALMER2A	6	0	88	119	0	0.01	1.71097165012573E-02	0.0E+00	0
PALMER2B	4	0	19	23	0	0.01	6.23266904205002E-01	0.0E+00	0
PALMER2C	8	0	1	2	0	0.00	1.43688856577261E-02	0.0E+00	0
PALMER2E	8	0	37	55	0	0.01	2.06504705977024E-04	0.0E+00	0
PALMER3	4	0	159	217	0	0.02	2.26595822038666E+03	0.0E+00	0
PALMER3A	6	0	63	78	0	0.01	2.04314257033303E-02	0.0E+00	0
PALMER3B	4	0	14	15	0	0.01	4.22764727473876E+00	0.0E+00	0
PALMER3C	8	0	1	2	0	0.00	1.95376389536123E-02	0.0E+00	0
PALMER3E	8	0	25	30	0	0.00	5.07412051354481E-05	0.0E+00	0
PALMER4	4	0	136	183	0	0.01	2.28538322742966E+03	0.0E+00	0
PALMER4A	6	0	59	75	0	0.01	4.06061409161127E-02	0.0E+00	0
PALMER4B	4	0	15	19	0	0.01	6.83513863524717E+00	0.0E+00	0
PALMER4C	8	0	1	2	0	0.00	5.03106869493616E-02	0.0E+00	0
PALMER4E	8	0	29	35	0	0.01	1.48003483556583E-04	0.0E+00	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
PALMER5A	8	0	3000	7123	0	0.39	3.85949770050738E-02	0.0E+00	1
PALMER5B	9	0	9	10	0	0.00	2.85655286070206E-02	0.0E+00	0
PALMER5C	6	0	1	2	0	0.01	2.12808664345452E+00	0.0E+00	0
PALMER5D	8	0	6	7	0	0.00	8.73393947535831E+01	0.0E+00	0
PALMER5E	8	0	3000	4397	0	0.31	2.08835330611846E-02	0.0E+00	1
PALMER6A	6	0	121	172	0	0.01	5.59488535650212E-02	0.0E+00	0
PALMER6C	8	0	1	2	0	0.01	1.63874378364913E-02	0.0E+00	0
PALMER6E	8	0	31	40	0	0.00	2.23954104511215E-04	0.0E+00	0
PALMER7A	6	0	3000	4382	0	0.28	1.03349221883689E+01	0.0E+00	1
PALMER7C	8	0	1	2	0	0.01	6.01987195475301E-01	0.0E+00	0
PALMER7E	8	0	3000	6760	0	0.39	6.57421886378933E+00	0.0E+00	1
PALMER8A	6	0	43	63	0	0.01	7.40096986361822E-02	0.0E+00	0
PALMER8C	8	0	1	2	0	0.01	1.59767833496426E-01	0.0E+00	0
PALMER8E	8	0	17	24	0	0.00	6.33930614667249E-03	0.0E+00	0
PARKCH	15	0	17	20	0	91.41	1.62374325821732E+03	0.0E+00	0
PENALTY1	1000	0	19	20	0	67.17	4.59867485509885E+03	0.0E+00	0
PENALTY2	200	0	10	11	0	0.23	4.71162772875319E+13	0.0E+00	0
PENALTY3	200	0	19	27	0	13.97	9.99911524355412E-04	0.0E+00	0
PENTAGON	21	15	16	18	18	0.00	1.36532215635160E-04	2.2E-16	0
PENTDI	5000	0	15	16	0	0.55	-7.50017286018077E-01	0.0E+00	0
PFIT1	3	3	771	12689	12689	0.60	3.61891517991950E-22	1.3E+01	18
PFIT1LS	3	0	321	444	0	0.02	9.51058065190914E-16	0.0E+00	0
PFIT2	3	3	3000	47669	47669	0.42	-1.14481796777339E-21	1.5E-01	12
PFIT2LS	3	0	75	99	0	0.00	1.96332511517089E-16	0.0E+00	0
PFIT3	3	3	492	2150	2152	0.07	-2.03486430688045E-22	7.7E+01	18
PFIT3LS	3	0	162	229	0	0.01	2.35775583187330E-15	0.0E+00	0
PFIT4	3	3	3000	5810	5832	0.39	2.94476298068878E-22	4.8E-01	12
PFIT4LS	3	0	236	332	0	0.03	5.32657540023449E-16	0.0E+00	0
PINENE	8805	8795	16	17	17	2.82	1.98721668418970E+01	1.1E-14	0
POLAK1	5	2	7	8	8	0.01	2.71828182347085E+00	5.4E-16	0
POLAK2	13	2	19	34	34	0.00	5.45981500281560E+01	3.2E-15	0
POLAK3	22	10	267	979	979	20.98	6.46748157590987E+03	8.8E+02	11
POLAK4	6	3	6	7	7	0.00	-2.44240195500523E-09	1.1E-07	0
POLAK5	5	2	31	32	32	0.01	4.99999999920000E+01	8.9E-09	0
POLAK6	9	4	46	123	123	0.01	-4.40000000024899E+01	1.9E-11	0
POLYGON	5249	5049	51	53	53	7.02	-7.26868716010402E-01	1.6E-13	0
POROUS1	5184	4900	12	17	17	9.75	0.00000000000000E+00	2.7E-06	0
POROUS2	5184	4900	8	16	16	6.83	0.00000000000000E+00	2.3E-09	0
PORTFL1	12	1	10	11	11	0.01	2.04862895058241E-02	1.8E-17	0
PORTFL2	12	1	9	10	10	0.01	2.96892622421160E-02	1.9E-17	0
PORTFL3	12	1	10	11	11	0.01	3.27497239397100E-02	9.3E-18	0
PORTFL4	12	1	9	10	10	0.01	2.63069742058562E-02	6.7E-18	0
PORTFL6	12	1	9	10	10	0.01	2.57918132562071E-02	3.2E-17	0
PORTSNQP	100000	2	46	60	60	48.90	3.33317709900315E+04	3.5E-17	0
PORTSQP	100000	1	25	29	29	17.99	3.33313398651068E+04	4.1E-18	0
POWELL20	10000	5000	1151	1152	1152	64.39	6.51197888018612E+09	7.3E-13	0
POWELLBS	2	2	11	12	12	0.01	0.00000000000000E+00	7.8E-07	0
POWELLSG	5000	0	19	20	0	0.35	8.33297733940286E-09	0.0E+00	0
POWELLSQ	2	2	65	341	341	0.01	0.00000000000000E+00	5.3E-09	0
POWER	1000	0	19	20	0	66.90	1.03722380459405E-02	0.0E+00	0
PRIMAL1	410	85	18	19	19	0.21	-3.50129141938963E-02	6.9E-18	0
PRIMAL2	745	96	17	18	18	0.28	-3.37335891634183E-02	3.8E-18	0
PRIMAL3	856	111	14	15	15	0.89	-1.35755597304067E-01	1.4E-17	0
PRIMAL4	1564	75	15	16	16	0.56	-7.46090594784250E-01	2.9E-17	0
PRIMALC1	239	9	13	14	14	0.05	-6.15525382040563E+03	6.1E-13	0
PRIMALC2	238	7	15	16	16	0.04	-3.55130860277559E+03	1.8E-12	0
PRIMALC5	295	8	12	13	13	0.05	-4.27233396569250E+02	5.7E-14	0
PRIMALC8	528	8	24	25	25	0.14	-1.83094366188433E+04	1.5E-11	0
PROBPENL	500	0	6	7	0	2.43	3.98100269418607E-07	0.0E+00	0
PRODPL0	69	29	19	20	20	0.01	5.87900983704573E+01	4.6E-13	0
PRODPL1	69	29	23	24	24	0.02	3.57389661693675E+01	1.5E-12	0
PSPDOC	4	0	7	11	0	0.00	2.41421355781041E+00	0.0E+00	0
PT	503	501	22	31	31	0.07	1.78394220453234E-01	5.6E-17	0
QC	13	4	28	31	31	0.01	-9.56537856900489E+02	1.1E-16	0
QCNEW	12	3	32	54	33	0.01	-1.07864870481672E+03	1.4E-17	18
QPBAND	75000	25000	21	22	22	16.58	-4.99991966781851E+04	8.9E-16	0
QPCBLEND	114	74	23	48	48	0.03	-7.84278148590948E-03	3.6E-15	0
QPCBOEI1	726	351	237	261	261	1.74	1.15039142018127E+07	1.8E-12	0
QPCBOEI2	305	166	142	143	143	0.34	8.17196220679982E+06	1.1E-13	0
QPCSTAIR	614	356	181	183	183	1.42	6.20439167900229E+06	2.1E-14	0
QPNBAND	75000	25000	21	22	22	19.99	-2.49997254374545E+05	4.4E-16	0
QPNBLEND	114	74	22	44	44	0.03	-9.13637810418532E-03	3.6E-15	0
QPNBOEI1	726	351	539	562	562	5.39	6.77765013998321E+06	1.8E-12	0
QPNBOEI2	305	166	198	209	209	0.66	1.36827588309587E+06	1.5E-11	0
QPNSTAIR	614	356	208	210	210	1.68	5.14603306431447E+06	1.4E-14	0
QR3D	610	610	10	51	51	266.28	5.77475465138582E-23	5.8E-11	0
QR3DLS	610	0	203	305	0	163.22	5.51440434682308E-16	0.0E+00	0
QRTQUAD	5000	0	376	379	0	23.63	-2.64856746445772E+11	0.0E+00	0
QUARTC	5000	0	19	20	0	0.27	2.64157228652526E+04	0.0E+00	0
QUDLIN	5000	0	28	37	0	0.58	-1.25000001249500E+09	0.0E+00	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
READING1	4002	2000	23	24	24	0.82	-1.60476849535776E-01	2.4E-09	0
READING2	6003	4000	20	55	55	1.12	-1.25783868654961E-02	2.7E-14	0
READING3	4002	2001	19	20	20	0.76	-1.52562463278736E-01	1.5E-07	0
READING4	10001	5000	211	363	363	24.59	-2.91414084204022E-01	1.4E-07	0
READING5	5001	5000	5	6	6	0.44	-2.24869885788944E-17	4.0E-13	0
READING6	102	50	20	21	21	0.05	-1.44659700840372E+02	2.8E-11	0
READING7	1002	500	126	128	128	132.83	-1.17663345909533E+03	7.8E-16	0
READING8	2002	1000	183	184	184	2833.75	-2.18754721375830E+03	8.3E-16	0
READING9	10002	5000	139	333	333	18.15	-4.43507288011204E-02	9.1E-13	0
RECIPE	3	3	16	17	17	0.00	0.00000000000000E+00	5.8E-09	0
RES	22	14	13	21	21	0.01	-7.06819371078027E-27	3.6E-15	0
RK23	17	11	10	11	11	0.01	8.33332878306773E-02	3.4E-12	0
ROBOT	14	2	39	43	43	0.01	6.59329888785711E+00	3.3E-16	0
ROBOTARM	4412	3202	305	450	450	26.08	9.14103076620551E+00	1.4E-11	0
ROCKET	2407	2002	50	59	59	1.71	-1.01283522130369E+00	1.6E-09	0
ROSENBR	2	0	21	29	0	0.01	3.74397564313947E-21	0.0E+00	0
ROSENMMX	9	4	18	49	49	0.01	-4.40000000024896E+01	1.7E-11	0
ROTDISC	1266	1081	78	105	105	1.29	7.87206790193183E+00	8.2E-12	0
RSNBRNE	2	2	1	3	3	0.00	0.00000000000000E+00	6.7E-15	0
S268	10	5	16	17	17	0.01	6.42779923509806E-07	3.6E-15	0
S277-280	8	4	12	13	13	0.00	5.07619043386798E+00	7.6E-17	0
S308	2	0	9	11	0	0.01	7.73199056492924E-01	0.0E+00	0
S316-322	2	1	7	8	8	0.00	3.34314575050762E+02	1.2E-16	0
S368	8	0	11	12	0	0.02	-7.50000040000028E-01	0.0E+00	0
SAWPATH	779	774	15	16	16	0.11	7.50458945765029E+02	1.1E-15	0
SBRYBND	5000	0	13	15	0	1.28	1.17353699710354E-20	0.0E+00	0
SCHMVETT	5000	0	3	4	0	0.30	-1.49940000000000E+04	0.0E+00	0
SCOND1LS	5002	0	730	1262	0	134.08	4.72654973629380E-04	0.0E+00	0
SCOSINE	5000	0	129	130	0	4.31	-4.99900000000000E+03	0.0E+00	0
SCURLY10	10000	0	411	413	0	112.06	-1.00316290241331E+06	0.0E+00	0
SCURLY20	10000	0	417	422	0	259.93	-1.00316290241331E+06	0.0E+00	0
SCURLY30	1000	0	72	110	0	7.99	-1.00316290241331E+05	0.0E+00	0
SEMICN2U	5002	5000	26	94	94	2.38	0.00000000000000E+00	1.3E-10	0
SEMICON1	5002	5000	59	126	126	1018.27	0.00000000000000E+00	4.5E-13	0
SEMICON2	5002	5000	19	27	27	1.56	0.00000000000000E+00	1.2E-09	0
SENSORS	100	0	36	38	0	1.74	-1.98787500000000E+03	0.0E+00	0
SIM2BQP	2	0	7	8	0	0.01	-7.46912671086698E-09	0.0E+00	0
SIMBQP	2	0	7	8	0	0.00	-7.44613669689688E-09	0.0E+00	0
SIMPLLPA	4	2	8	9	9	0.01	9.99999985006204E-01	1.1E-16	0
SIMPLLPB	5	3	8	10	10	0.00	1.09999999498058E+00	5.3E-17	0
SINEALI	1000	0	27	34	0	0.18	-9.99009616487095E+04	0.0E+00	0
SINEVAL	2	0	42	66	0	0.01	2.73666583590315E-41	0.0E+00	0
SINQUAD	5000	0	24	30	0	2.54	-6.75701375733560E+06	0.0E+00	0
SINROSNB	1999	999	139	626	626	2.75	1.25187393864629E+02	8.9E-16	18
SINVALNE	2	2	1	3	3	0.00	0.00000000000000E+00	0.0E+00	0
SIPOW1	2002	2000	74	92	92	1.01	-1.00000000749151E+00	4.4E-16	0
SIPOW1M	2002	2000	77	115	115	1.06	-1.00000123898484E+00	2.2E-16	0
SIPOW2	2002	2000	35	63	63	0.52	-1.00000000749257E+00	2.2E-16	0
SIPOW2M	2002	2000	34	46	46	0.47	-1.00000493971258E+00	4.4E-16	0
SIPOW3	2004	2000	12	15	15	0.24	5.34658639848546E-01	1.1E-16	0
SIPOW4	2004	2000	13	14	14	0.26	2.72361988690064E-01	5.6E-17	0
SISSER	2	0	18	19	0	0.01	6.33110438076676E-13	0.0E+00	0
SMBANK	117	64	21	22	22	0.03	-7.12929200000000E+06	5.9E-11	0
SMMPSF	743	263	555	556	556	9.03	1.03292602811604E+06	5.2E-11	0
SNAIL	2	0	65	95	0	0.01	5.96765208698665E-29	0.0E+00	0
SNAKE	4	2	14	16	16	0.00	-1.99994988192869E-04	1.3E-15	0
SOSQP1	5000	2501	8	9	9	0.44	0.00000000000000E+00	0.0E+00	0
SOSQP2	5000	2501	16	17	17	0.70	-1.24870086994571E+03	1.4E-13	0
SPANHYD	97	33	23	24	24	0.03	2.39738000704755E+02	3.6E-13	0
SPARSINE	1000	0	15	16	0	20.31	9.07583375416319E-10	0.0E+00	0
SPARSQUR	1000	0	19	20	0	11.79	5.82855534549602E-09	0.0E+00	0
SPECAN	9	0	10	11	0	1.88	5.44046515727366E-13	0.0E+00	0
SPIRAL	5	2	3000	30993	30993	0.41	1.50325793220397E+01	1.5E-04	1
SPMSRTLS	4999	0	22	29	0	1.47	1.85604118348032E-15	0.0E+00	0
SREADIN3	4002	2001	22	23	23	0.85	-1.52567965443720E-01	8.3E-10	0
SROSENBR	5000	0	8	10	0	0.18	3.30178841215902E-22	0.0E+00	0
SSC	5184	0	2	3	0	0.43	-2.07817327529280E+00	0.0E+00	0
SSEBLIN	218	72	65	66	66	0.06	1.61705999789443E+07	2.3E-11	0
SSEBNLN	218	96	90	121	121	0.12	1.61706287793525E+07	2.5E-11	18
SSNLBEAM	3003	2000	162	182	182	4.94	3.40030395200286E+02	1.6E-13	0
STCQP1	8193	4095	14	15	15	270.67	3.67100484678333E+05	0.0E+00	0
STCQP2	8193	4095	14	15	15	45.73	3.71892742778816E+04	0.0E+00	0
STEENBRA	432	108	23	24	24	7.28	1.69576746614654E+04	1.3E-13	0
STEENBRB	468	108	47	49	49	8.48	9.07585541018647E+03	1.0E-13	0
STEENBRC	540	126	395	581	581	44.55	2.79008967863235E+04	4.3E-13	0
STEENBRD	468	108	178	212	212	23.65	9.03008180151115E+03	1.1E-13	0
STEENBRE	540	126	218	269	269	31.36	2.87840825711414E+04	1.5E-12	0
STEENBRF	468	108	180	232	232	23.94	8.99184825476940E+03	1.0E-13	0
STEENBRG	540	126	290	360	360	37.15	2.78095786028993E+04	4.8E-13	0
STEERING	2006	1600	18	24	24	0.47	5.54572413656039E-01	1.4E-09	0

Name	n	m	# iter	# f	# c	CPU(s)	$f(x_*)$	$\|c(x_*)\|$	exit
STNQP1	8193	4095	19	20	20	247.02	-3.11704501279900E+05	3.3E-16	0
STNQP2	8193	4095	21	22	22	122.52	-5.74970007798126E+05	0.0E+00	0
STRATEC	10	0	24	36	0	50.80	2.21226229090737E+03	0.0E+00	0
SUPERSIM	2	2	1	2	2	0.00	6.66666666666667E-01	1.1E-16	0
SVANBERG	10000	5000	32	41	41	12.22	8.36142434313124E+03	1.1E-09	0
SWOPF	97	92	17	18	18	0.02	6.78601905509084E-02	3.7E-10	0
SYNTHES1	12	6	9	10	10	0.00	7.59284196365647E-01	2.7E-13	0
SYNTHES2	24	14	22	26	26	0.00	-5.54406260519633E-01	8.6E-16	0
SYNTHES3	38	23	15	18	18	0.00	1.50821899452916E+01	4.4E-16	0
TAME	2	1	6	7	7	0.00	2.63775365183276E-30	0.0E+00	0
TENBARS1	19	9	30	33	33	0.01	2.30254848835814E+03	2.7E-13	0
TENBARS2	18	8	38	46	46	0.01	2.30254848835814E+03	4.2E-13	0
TENBARS3	18	8	17	18	18	0.01	2.24712904401814E+03	4.6E-13	0
TENBARS4	19	9	17	18	18	0.01	3.68493161068913E+02	6.1E-11	0
TESTQUAD	5000	0	1	2	0	0.04	1.52872808584842E-24	0.0E+00	0
TFI1	104	101	41	78	78	0.04	5.33468727728817E+00	1.3E-09	0
TFI2	104	101	14	24	24	0.01	6.49031104652136E-01	3.1E-17	0
TFI3	104	101	15	18	18	0.02	4.30115786272373E+00	7.3E-17	0
TOINTGOR	50	0	7	8	0	0.01	1.37390546066364E+03	0.0E+00	0
TOINTGSS	5000	0	1	2	0	0.13	9.99999999936000E+00	0.0E+00	0
TOINTPSP	50	0	18	41	0	0.01	2.25560409421886E+02	0.0E+00	0
TOINTQOR	50	0	1	2	0	0.01	1.17547222214617E+03	0.0E+00	0
TORSION1	5476	0	16	30	0	1.32	-4.30271693494325E-01	0.0E+00	0
TORSION2	5476	0	13	21	0	1.12	-4.30271697754860E-01	0.0E+00	0
TORSION3	5476	0	13	22	0	1.12	-1.21694763294161E+00	0.0E+00	0
TORSION4	5476	0	14	24	0	1.17	-1.21694766729434E+00	0.0E+00	0
TORSION5	5476	0	13	18	0	1.12	-2.86337389790128E+00	0.0E+00	0
TORSION6	5476	0	13	15	0	1.07	-2.86336748329813E+00	0.0E+00	0
TORSIONA	5476	0	16	29	0	1.43	-4.18292215749318E-01	0.0E+00	0
TORSIONB	5476	0	13	22	0	1.19	-4.18292191670577E-01	0.0E+00	0
TORSIONC	5476	0	13	19	0	1.18	-1.20420054959707E+00	0.0E+00	0
TORSIOND	5476	0	14	24	0	1.28	-1.20420059495121E+00	0.0E+00	0
TORSIONE	5476	0	12	13	0	1.11	-2.85023737867777E+00	0.0E+00	0
TORSIONF	5476	0	13	20	0	1.22	-2.85023739711314E+00	0.0E+00	0
TQUARTIC	5000	0	1	2	0	0.23	2.02110093431007E-24	0.0E+00	0
TRAINF	4008	2002	34	35	35	0.95	3.10338388305066E+00	5.1E-15	0
TRAINH	4008	2002	58	59	59	1.87	1.23119067528886E+01	1.1E-10	0
TRIDIA	5000	0	1	2	0	0.08	4.86604424368941E-25	0.0E+00	0
TRIGGER	7	6	15	27	27	0.01	0.00000000000000E+00	8.5E-07	0
TRIMLOSS	197	75	36	37	37	0.06	9.06000020775981E+00	3.8E-09	0
TRUSPYR1	12	4	12	14	14	0.00	1.12287405429137E+01	4.5E-09	0
TRUSPYR2	19	11	12	13	13	0.01	1.12287400442854E+01	8.3E-11	0
TRY-B	2	1	19	20	20	0.00	1.57192467823369E-18	8.6E-13	0
TWOBARS	4	2	9	10	10	0.00	1.50865240491976E+00	1.5E-12	0
UBH1	9009	6000	6	7	7	0.63	1.11600326156504E+00	4.3E-13	0
UBH5	5010	3500	6	7	7	0.40	1.11601303662427E+00	4.3E-13	0
VANDERM1	199	199	50	54	54	10.01	9.31806035343915E-23	7.6E-09	0
VANDERM2	199	199	50	54	54	10.03	9.31806035343915E-23	7.6E-09	0
VANDERM3	199	199	54	67	67	10.34	-2.69910326345760E-21	6.8E-09	0
VARDIM	200	0	19	20	0	0.47	1.36538916954398E+03	0.0E+00	0
VAREIGVL	50	0	13	14	0	0.02	1.87770458214869E-15	0.0E+00	0
VIBRBEAM	8	0	58	66	0	0.02	3.32237620018118E-01	0.0E+00	0
WATER	31	10	24	25	25	0.01	1.05493794641236E+04	4.0E-14	0
WATSON	12	0	14	15	0	0.01	4.70134483622600E-10	0.0E+00	0
WEEDS	3	0	26	30	0	0.01	2.58727739528420E+00	0.0E+00	0
WOMFLET	6	3	11	12	12	0.01	6.05000000069801E+00	2.7E-13	0
WOODS	4000	0	40	53	0	0.65	4.83716688091815E-24	0.0E+00	0
YAO	4002	2000	28	31	31	0.62	1.96181717638762E+02	9.8E-17	0
YATP1SQ	123200	123200	3	4	4	51.57	0.00000000000000E+00	3.7E-09	0
YFIT	3	0	49	67	0	0.01	6.71636756463016E-13	0.0E+00	0
YFITU	3	0	35	52	0	0.01	6.66972740478011E-13	0.0E+00	0
YORKNET	312	256	55	57	57	0.13	1.39228946958745E+04	5.3E-13	0
ZAMB2	3966	1440	39	43	43	1.42	-1.11311988953303E+01	3.3E-10	0
ZAMB2-10	270	96	29	37	37	0.06	-1.58237688001830E+00	8.1E-09	0
ZAMB2-11	270	96	22	27	27	0.05	-1.11614107690020E+00	9.9E-09	0
ZAMB2-8	138	48	20	21	21	0.01	-1.52935794661633E-01	6.1E-09	0
ZAMB2-9	138	48	23	30	30	0.02	-3.54585145752121E-01	5.1E-14	0
ZANGWIL2	2	0	1	2	0	0.00	-1.82000000091000E+01	0.0E+00	0
ZANGWIL3	3	3	1	2	2	0.01	0.00000000000000E+00	0.0E+00	0
ZECEVIC2	4	2	8	9	9	0.00	-4.12500001749469E+00	2.5E-17	0
ZECEVIC3	4	2	22	23	23	0.01	9.73094500642342E+01	2.1E-14	0
ZECEVIC4	4	2	12	13	13	0.00	7.55750775759716E+00	2.5E-14	0
ZIGZAG	3504	2500	524	569	569	12.99	8.63954258831086E+01	5.3E-15	0
ZY2	5	2	9	10	10	0.00	1.99999988501732E+00	6.8E-12	0