**20150614- WingM5\_4\_10variable\_Prescribed\_Harmonic-Result**

Starting matlabpool using the 'local' configuration ... connected to 8 labs.

Best Mean Stall

Generation f-count f(x) f(x) Generations

1 200 4000 4204 0

2 300 4000 4370 1

3 400 4000 4412 2

4 500 4000 4471 3

5 600 4000 4528 4

6 700 4000 4401 5

7 800 4000 4396 6

8 900 4000 4436 0

9 1000 4000 4411 1

10 1100 4000 4423 2

11 1200 3999 4315 0

12 1300 3999 4407 1

13 1400 3999 4351 0

14 1500 3999 4439 1

15 1600 3999 4501 0

16 1700 3999 4543 1

17 1800 3998 4503 0

18 1900 3998 4429 1

19 2000 3998 4479 0

20 2100 3996 4448 0

21 2200 3996 4376 0

22 2300 3995 4403 0

23 2400 3995 4452 1

24 2500 3995 4536 2

25 2600 3994 4523 0

26 2700 3994 4541 1

27 2800 3994 4505 0

28 2900 3992 4440 0

29 3000 3992 4457 1

30 3100 3992 4400 2

31 3200 3991 4378 0

32 3300 3991 4367 0

33 3400 3991 4364 0

34 3500 3991 4429 1

35 3600 3989 4308 0

36 3700 3988 4416 0

37 3800 3988 4379 1

38 3900 3988 4316 2

39 4000 3988 4378 3

40 4100 3988 4372 4

41 4200 3988 4318 0

42 4300 3988 4375 0

43 4400 3988 4266 1

44 4500 3988 4330 2

45 4600 3988 4387 3

46 4700 3988 4344 4

47 4800 3986 4359 0

48 4900 3986 4393 1

49 5000 3985 4326 0

50 5100 3985 4473 1

51 5200 3985 4291 2

52 5300 3985 4318 3

53 5400 3985 4322 0

54 5500 3982 4310 0

55 5600 3982 4353 1

56 5700 3982 4369 2

57 5800 3982 4376 3

58 5900 3980 4384 0

59 6000 3979 4281 0

60 6100 3979 4333 1

61 6200 3978 4313 0

62 6300 3978 4324 1

63 6400 3978 4329 2

64 6500 3978 4273 3

65 6600 3978 4222 0

66 6700 3978 4274 1

67 6800 3974 4242 0

68 6900 3974 4245 1

69 7000 3974 4227 2

70 7100 3974 4162 3

71 7200 3974 4195 4

72 7300 3974 4184 5

73 7400 3974 4246 0

74 7500 3973 4251 0

75 7600 3973 4265 0

76 7700 3973 4258 0

77 7800 3969 4253 0

78 7900 3968 4216 0

79 8000 3968 4228 0

80 8100 3968 4137 0

81 8200 3968 4160 1

82 8300 3968 4178 2

83 8400 3968 4111 3

84 8500 3968 4141 4

85 8600 3968 4156 5

86 8700 3968 4171 0

87 8800 3965 4211 0

88 8900 3965 4156 0

89 9000 3965 4148 1

90 9100 3964 4177 0

91 9200 3964 4202 0

92 9300 3962 4178 0

93 9400 3961 4126 0

94 9500 3959 4143 0

95 9600 3959 4083 0

96 9700 3959 4123 1

97 9800 3957 4138 0

98 9900 3956 4150 0

99 10000 3956 4092 1

100 10100 3956 4123 2

101 10200 3956 4125 3

102 10300 3956 4113 4

103 10400 3953 4116 0

104 10500 3953 4089 1

105 10600 3953 4086 2

106 10700 3953 4132 0

107 10800 3953 4083 1

108 10900 3953 4069 2

109 11000 3953 4093 3

110 11100 3951 4080 0

111 11200 3949 4076 0

112 11300 3949 4100 1

113 11400 3949 4058 2

114 11500 3949 4073 3

115 11600 3949 4084 4

116 11700 3949 4070 5

117 11800 3947 4094 0

118 11900 3947 4116 0

119 12000 3947 4050 1

120 12100 3946 4065 0

121 12200 3944 4041 0

122 12300 3944 4017 1

123 12400 3944 4000 2

124 12500 3944 4030 0

125 12600 3944 4061 1

126 12700 3943 4040 0

127 12800 3943 4059 1

128 12900 3943 4063 0

129 13000 3942 4067 0

130 13100 3942 4086 1

131 13200 3942 4096 2

132 13300 3942 4064 3

133 13400 3942 4052 0

134 13500 3940 4066 0

135 13600 3940 4031 1

136 13700 3940 4023 2

137 13800 3940 4061 3

138 13900 3937 4039 0

139 14000 3937 4038 1

140 14100 3937 4040 0

141 14200 3937 4009 1

142 14300 3937 4016 2

143 14400 3936 4027 0

144 14500 3934 4009 0

145 14600 3934 4001 1

146 14700 3933 3992 0

147 14800 3933 3975 1

148 14900 3933 3972 2

149 15000 3931 3985 0

150 15100 3931 3989 0

151 15200 3930 4011 0

152 15300 3930 3990 0

153 15400 3930 3978 0

154 15500 3930 3979 0

155 15600 3929 3986 0

156 15700 3928 3992 0

157 15800 3928 3969 1

158 15900 3927 3970 0

159 16000 3926 3965 0

160 16100 3925 3968 0

161 16200 3924 3980 0

162 16300 3924 3974 1

163 16400 3922 3979 0

164 16500 3922 3952 1

165 16600 3922 3949 2

166 16700 3922 3949 0

167 16800 3922 3958 1

168 16900 3921 3968 0

169 17000 3921 3962 1

170 17100 3921 3961 2

171 17200 3921 3959 3

172 17300 3921 3956 0

173 17400 3921 3941 1

174 17500 3921 3933 2

175 17600 3920 3944 0

176 17700 3920 3940 0

Optimization terminated: stop requested from plot function.

Switching to the hybrid optimization algorithm (FMINSEARCH).

Iteration Func-count min f(x) Procedure

0 1 3919.76

1 7 3911.56 initial simplex

2 9 3911.56 contract outside

3 11 3911.56 contract inside

4 12 3911.56 reflect

5 13 3911.56 reflect

6 15 3911.56 contract inside

7 16 3911.56 reflect

8 17 3911.56 reflect

9 19 3907.01 expand

10 20 3907.01 reflect

11 22 3900.54 expand

12 23 3900.54 reflect

13 25 3890.26 expand

14 26 3890.26 reflect

15 28 3880.81 expand

16 30 3866.49 expand

17 31 3866.49 reflect

18 33 3851.83 expand

19 35 3830.78 expand

20 36 3830.78 reflect

21 38 3811.39 expand

22 40 3782.53 expand

23 41 3782.53 reflect

24 42 3782.53 reflect

25 43 3782.53 reflect

26 44 3782.53 reflect

27 46 3782.53 contract inside

28 48 3773.82 expand

29 50 3720.58 expand

30 51 3720.58 reflect

31 52 3720.58 reflect

32 54 3710.84 expand

33 55 3710.84 reflect

34 56 3710.84 reflect

35 58 3565.38 expand

36 59 3565.38 reflect

37 60 3565.38 reflect

38 61 3565.38 reflect

39 62 3565.38 reflect

40 63 3565.38 reflect

41 64 3565.38 reflect

42 66 3348.88 expand

43 67 3348.88 reflect

44 68 3348.88 reflect

45 69 3348.88 reflect

46 71 3229.23 expand

47 72 3229.23 reflect

48 74 3101.59 expand

49 76 2739.13 expand

50 77 2739.13 reflect

51 78 2739.13 reflect

52 79 2739.13 reflect

53 80 2739.13 reflect

54 81 2739.13 reflect

55 83 2567.78 reflect

56 84 2567.78 reflect

57 85 2567.78 reflect

58 87 2565.28 reflect

59 88 2565.28 reflect

60 90 2561.27 contract inside

61 91 2561.27 reflect

62 93 2467.25 reflect

63 95 2467.25 contract outside

64 97 2467.25 contract inside

65 99 2467.25 contract inside

66 100 2467.25 reflect

67 102 2460.21 reflect

68 103 2460.21 reflect

69 105 2448.23 reflect

70 107 2387.85 reflect

71 108 2387.85 reflect

72 109 2387.85 reflect

73 111 2368.83 reflect

74 112 2368.83 reflect

75 114 2297.86 expand

76 115 2297.86 reflect

77 116 2297.86 reflect

78 118 2297.86 contract inside

79 119 2297.86 reflect

80 121 2147.76 expand

81 122 2147.76 reflect

82 123 2147.76 reflect

83 124 2147.76 reflect

84 126 2132.16 reflect

85 128 2072.87 reflect

86 129 2072.87 reflect

87 131 2045.79 reflect

88 132 2045.79 reflect

89 133 2045.79 reflect

90 135 2045.79 contract inside

91 136 2045.79 reflect

92 138 2045.79 contract inside

93 139 2045.79 reflect

94 141 2044.21 reflect

95 143 2023.5 contract inside

96 145 2023.5 contract inside

97 147 2013.96 contract inside

98 149 2013.96 contract inside

99 151 2013.96 contract inside

100 152 2013.96 reflect

101 154 2013.96 contract inside

102 156 2013.96 contract inside

103 158 2013.96 contract inside

104 160 2013.96 contract inside

105 162 2013.96 contract outside

106 164 2013.24 reflect

107 166 2013.24 contract outside

108 168 2012.09 contract inside

109 170 2011.42 contract inside

110 178 2011.19 shrink

111 180 2011.19 contract inside

112 181 2011.19 reflect

113 183 2010.69 contract outside

114 185 2010.66 reflect

115 187 2010.66 contract outside

116 189 2010.66 contract outside

117 197 2010.37 shrink

118 199 2010.37 contract inside

119 201 2010.37 contract inside

120 209 2010.15 shrink

121 211 2010.15 contract outside

122 219 2010.15 shrink

123 220 2010.15 reflect

124 222 2010.15 contract inside

125 223 2010.15 reflect

126 231 2010.15 shrink

127 233 2010.15 contract outside

128 241 2010.15 shrink

129 242 2010.15 reflect

130 244 2010.15 reflect

131 246 2010.14 reflect

132 248 2010.14 contract inside

133 249 2010.14 reflect

134 251 2010.14 contract inside

135 253 2010.14 contract inside

136 254 2010.14 reflect

137 255 2010.14 reflect

138 257 2010.14 contract inside

139 259 2010.14 contract inside

140 261 2010.14 contract inside

141 262 2010.14 reflect

142 264 2010.14 expand

143 266 2010.13 expand

144 267 2010.13 reflect

145 269 2010.13 contract inside

146 270 2010.13 reflect

147 271 2010.13 reflect

148 272 2010.13 reflect

149 280 2010.13 shrink

150 281 2010.13 reflect

151 282 2010.13 reflect

152 283 2010.13 reflect

153 285 2010.13 contract inside

154 287 2010.13 contract outside

155 289 2010.13 reflect

156 291 2010.13 contract inside

157 293 2010.13 expand

158 294 2010.13 reflect

159 295 2010.13 reflect

160 297 2010.13 expand

161 298 2010.13 reflect

162 300 2010.12 expand

163 301 2010.12 reflect

164 302 2010.12 reflect

165 304 2010.12 expand

166 306 2010.12 expand

167 307 2010.12 reflect

168 308 2010.12 reflect

169 309 2010.12 reflect

170 310 2010.12 reflect

171 318 2010.12 shrink

172 319 2010.12 reflect

173 321 2010.12 contract inside

174 323 2010.12 reflect

175 324 2010.12 reflect

176 326 2010.12 expand

177 328 2010.11 expand

178 330 2010.11 contract outside

179 332 2010.11 contract inside

180 333 2010.11 reflect

181 334 2010.11 reflect

182 335 2010.11 reflect

183 337 2010.11 expand

184 339 2010.11 reflect

185 341 2010.11 contract inside

186 342 2010.11 reflect

187 343 2010.11 reflect

188 345 2010.11 contract inside

189 347 2010.11 expand

190 348 2010.11 reflect

191 350 2010.11 reflect

192 352 2010.11 reflect

193 354 2010.11 expand

194 355 2010.11 reflect

195 357 2010.11 contract outside

196 359 2010.11 expand

197 367 2010.11 shrink

198 368 2010.11 reflect

199 370 2010.11 contract inside

200 372 2010.11 contract inside

201 373 2010.11 reflect

202 375 2010.11 reflect

203 377 2010.11 reflect

204 379 2010.1 expand

205 380 2010.1 reflect

206 381 2010.1 reflect

207 383 2010.1 expand

208 384 2010.1 reflect

209 385 2010.1 reflect

210 387 2010.1 expand

211 388 2010.1 reflect

212 389 2010.1 reflect

213 390 2010.1 reflect

214 392 2010.1 contract inside

215 393 2010.1 reflect

216 394 2010.1 reflect

217 396 2010.1 reflect

218 398 2010.1 expand

219 400 2010.1 contract inside

220 401 2010.1 reflect

221 402 2010.1 reflect

222 404 2010.1 reflect

223 406 2010.1 reflect

224 408 2010.09 reflect

225 410 2010.09 expand

226 411 2010.09 reflect

227 412 2010.09 reflect

228 414 2010.09 contract inside

229 415 2010.09 reflect

230 417 2010.09 contract inside

231 419 2010.09 contract inside

232 420 2010.09 reflect

233 422 2010.09 contract inside

234 424 2010.09 contract inside

235 425 2010.09 reflect

236 427 2010.09 expand

237 429 2010.09 contract inside

238 431 2010.09 contract inside

239 432 2010.09 reflect

240 433 2010.09 reflect

241 435 2010.09 expand

242 437 2010.09 contract inside

243 438 2010.09 reflect

244 440 2010.09 expand

245 441 2010.09 reflect

246 443 2010.09 expand

247 444 2010.09 reflect

248 446 2010.09 expand

249 447 2010.09 reflect

250 449 2010.08 reflect

251 451 2010.08 expand

252 453 2010.08 expand

253 454 2010.08 reflect

254 455 2010.08 reflect

255 457 2010.08 reflect

256 459 2010.07 expand

257 460 2010.07 reflect

258 461 2010.07 reflect

259 463 2010.07 contract inside

260 465 2010.07 contract inside

261 466 2010.07 reflect

262 468 2010.06 expand

263 469 2010.06 reflect

264 471 2010.06 expand

265 472 2010.06 reflect

266 474 2010.06 contract inside

267 476 2010.05 expand

268 477 2010.05 reflect

269 479 2010.05 expand

270 480 2010.05 reflect

271 481 2010.05 reflect

272 482 2010.05 reflect

273 483 2010.05 reflect

274 485 2010.05 contract inside

275 486 2010.05 reflect

276 494 2010.05 shrink

277 496 2010.05 contract outside

278 498 2010.05 contract inside

279 506 2010.05 shrink

280 508 2010.05 expand

281 510 2010.05 contract inside

282 511 2010.05 reflect

283 513 2010.05 expand

284 514 2010.05 reflect

285 515 2010.05 reflect

286 516 2010.05 reflect

287 518 2010.04 expand

288 519 2010.04 reflect

289 520 2010.04 reflect

290 521 2010.04 reflect

291 523 2010.04 reflect

292 525 2010.04 expand

293 526 2010.04 reflect

294 528 2010.04 contract inside

295 530 2010.04 contract inside

296 531 2010.04 reflect

297 533 2010.04 contract inside

298 534 2010.04 reflect

299 536 2010.04 reflect

300 538 2010.04 expand

301 540 2010.04 contract inside

302 541 2010.04 reflect

303 542 2010.04 reflect

304 544 2010.04 expand

305 546 2010.04 contract inside

306 547 2010.04 reflect

307 548 2010.04 reflect

308 549 2010.04 reflect

309 551 2010.04 reflect

310 553 2010.03 expand

311 555 2010.03 expand

312 556 2010.03 reflect

313 557 2010.03 reflect

314 558 2010.03 reflect

315 560 2010.03 contract inside

316 562 2010.03 expand

317 563 2010.03 reflect

318 564 2010.03 reflect

319 572 2010.03 shrink

320 573 2010.03 reflect

321 574 2010.03 reflect

322 576 2010.03 contract inside

323 578 2010.03 expand

324 580 2010.03 contract inside

325 581 2010.03 reflect

326 589 2010.03 shrink

327 591 2010.02 expand

328 592 2010.02 reflect

329 593 2010.02 reflect

330 595 2010.02 reflect

331 597 2010.02 expand

332 599 2010.02 expand

333 601 2010.02 contract inside

334 602 2010.02 reflect

335 603 2010.02 reflect

336 605 2010.02 contract inside

337 606 2010.02 reflect

338 608 2010.02 expand

339 609 2010.02 reflect

340 611 2010.02 expand

341 613 2010.02 contract inside

342 615 2010.02 contract inside

343 623 2010.02 shrink

344 624 2010.02 reflect

345 625 2010.02 reflect

346 626 2010.02 reflect

347 627 2010.02 reflect

348 629 2010.02 expand

349 630 2010.02 reflect

350 632 2010.02 contract inside

351 633 2010.02 reflect

352 634 2010.02 reflect

353 636 2010.02 contract inside

354 638 2010.02 expand

355 640 2010.02 expand

356 642 2010.02 contract inside

357 643 2010.02 reflect

358 645 2010.02 contract inside

359 646 2010.02 reflect

360 648 2010.02 expand

361 650 2010.02 contract inside

362 658 2010.02 shrink

363 666 2010.02 shrink

364 668 2010.02 contract inside

365 669 2010.02 reflect

366 670 2010.02 reflect

367 672 2010.02 reflect

368 674 2010.02 contract inside

369 676 2010.02 reflect

370 678 2010.02 contract inside

371 680 2010.02 expand

372 681 2010.02 reflect

373 683 2010.02 contract inside

374 691 2010.02 shrink

375 692 2010.02 reflect

376 693 2010.02 reflect

377 695 2010.02 contract inside

378 697 2010.02 expand

379 698 2010.02 reflect

380 700 2010.02 expand

381 701 2010.02 reflect

382 703 2010.02 contract inside

383 705 2010.02 reflect

384 707 2010.02 reflect

385 709 2010.02 expand

386 710 2010.02 reflect

387 712 2010.02 contract inside

388 713 2010.02 reflect

389 715 2010.02 contract inside

390 716 2010.02 reflect

391 718 2010.02 reflect

392 720 2010.02 expand

393 721 2010.02 reflect

394 722 2010.02 reflect

395 723 2010.02 reflect

396 725 2010.02 expand

397 726 2010.02 reflect

398 728 2010.02 contract inside

399 729 2010.02 reflect

400 730 2010.02 reflect

401 738 2010.02 shrink

402 746 2010.02 shrink

403 748 2010.02 contract outside

404 750 2010.02 expand

405 752 2010.02 contract inside

406 754 2010.02 reflect

407 756 2010.02 expand

408 757 2010.02 reflect

409 758 2010.02 reflect

410 759 2010.02 reflect

411 761 2010.02 expand

412 763 2010.02 expand

413 771 2010.02 shrink

414 772 2010.02 reflect

415 774 2010.02 contract outside

416 775 2010.02 reflect

417 776 2010.02 reflect

418 778 2010.02 expand

419 780 2010.02 contract inside

420 781 2010.02 reflect

421 782 2010.02 reflect

422 784 2010.02 expand

423 785 2010.02 reflect

424 787 2010.02 expand

425 788 2010.02 reflect

426 790 2010.02 reflect

427 792 2010.02 contract inside

428 794 2010.02 expand

429 796 2010.02 contract inside

430 797 2010.02 reflect

431 805 2010.02 shrink

432 806 2010.02 reflect

433 808 2010.02 reflect

434 810 2010.02 contract inside

435 818 2010.02 shrink

436 819 2010.02 reflect

437 821 2010.02 expand

438 822 2010.02 reflect

439 824 2010.02 expand

440 826 2010.02 contract inside

441 827 2010.02 reflect

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444 831 2010.02 reflect

445 833 2010.02 reflect

446 835 2010.02 expand

447 836 2010.02 reflect

448 838 2010.02 contract inside

449 840 2010.02 contract inside

450 841 2010.02 reflect

451 843 2010.02 expand

452 844 2010.02 reflect

453 846 2010.02 contract inside

454 854 2010.02 shrink

455 856 2010.02 contract outside

456 857 2010.02 reflect

457 858 2010.02 reflect

458 860 2010.02 expand

459 861 2010.02 reflect

460 863 2010.02 expand

461 865 2010.02 contract inside

462 866 2010.02 reflect

463 868 2010.02 contract inside

464 869 2010.02 reflect

465 871 2010.02 expand

466 872 2010.02 reflect

467 873 2010.02 reflect

468 875 2010.02 reflect

469 877 2010.02 reflect

470 879 2010.02 contract inside

471 881 2010.02 expand

472 883 2010.02 contract inside

473 884 2010.02 reflect

474 885 2010.02 reflect

475 886 2010.02 reflect

476 888 2010.02 reflect

477 896 2010.02 shrink

478 898 2010.02 reflect

479 899 2010.02 reflect

480 901 2010.02 expand

481 902 2010.02 reflect

482 903 2010.02 reflect

483 905 2010.02 expand

484 906 2010.02 reflect

485 908 2010.02 expand

486 909 2010.02 reflect

487 911 2010.02 reflect

488 912 2010.02 reflect

489 914 2010.02 contract inside

490 915 2010.02 reflect

491 923 2010.02 shrink

492 925 2010.02 contract outside

493 927 2010.02 contract inside

494 929 2010.02 contract inside

495 931 2010.02 contract inside

496 933 2010.02 reflect

497 934 2010.02 reflect

498 935 2010.02 reflect

499 943 2010.02 shrink

500 944 2010.02 reflect

501 946 2010.02 contract inside

502 948 2010.02 expand

503 950 2010.02 contract inside

504 951 2010.02 reflect

505 953 2010.02 contract inside

506 955 2010.02 contract outside

507 956 2010.02 reflect

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510 960 2010.02 reflect

511 962 2010.02 expand

512 964 2010.02 reflect

513 966 2010.02 expand

514 967 2010.02 reflect

515 975 2010.02 shrink

516 976 2010.02 reflect

517 978 2010.02 expand

518 979 2010.02 reflect

519 987 2010.02 shrink

520 988 2010.02 reflect

521 990 2010.02 expand

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523 992 2010.02 reflect

524 994 2010.02 reflect

525 996 2010.02 expand

526 997 2010.02 reflect

527 999 2010.02 expand

528 1000 2010.02 reflect

529 1001 2010.02 reflect

530 1003 2010.02 contract inside

531 1005 2010.02 expand

532 1006 2010.02 reflect

533 1008 2010.02 expand

534 1010 2010.02 contract inside

535 1011 2010.02 reflect

536 1013 2010.02 contract inside

537 1014 2010.02 reflect

538 1016 2010.02 expand

539 1018 2010.02 expand

540 1020 2010.02 contract inside

541 1021 2010.02 reflect

542 1023 2010.02 expand

543 1024 2010.02 reflect

544 1026 2010.02 expand

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549 1032 2010.02 reflect

550 1034 2010.02 expand

551 1036 2010.02 expand

552 1037 2010.02 reflect

553 1039 2010.02 reflect

554 1041 2010.02 contract inside

555 1043 2010.02 expand

556 1044 2010.02 reflect

557 1046 2010.02 expand

558 1047 2010.02 reflect

559 1049 2010.02 expand

560 1050 2010.02 reflect

561 1052 2010.02 contract inside

562 1054 2010.02 contract inside

563 1062 2010.02 shrink

564 1063 2010.02 reflect

565 1064 2010.02 reflect

566 1065 2010.02 reflect

567 1067 2010.02 expand

568 1069 2010.02 reflect

569 1071 2010.02 expand

570 1072 2010.02 reflect

571 1073 2010.02 reflect

572 1075 2010.02 expand

573 1076 2010.02 reflect

574 1078 2010.02 contract inside

575 1080 2010.02 reflect

576 1082 2010.02 contract inside

577 1083 2010.02 reflect

578 1085 2010.02 expand

579 1086 2010.02 reflect

580 1094 2010.02 shrink

581 1096 2010.02 expand

582 1097 2010.02 reflect

583 1099 2010.02 contract inside

584 1100 2010.02 reflect

585 1101 2010.02 reflect

586 1103 2010.02 expand

587 1105 2010.02 contract inside

588 1106 2010.02 reflect

589 1108 2010.02 contract inside

590 1110 2010.02 contract inside

591 1111 2010.02 reflect

592 1113 2010.02 contract inside

593 1115 2010.02 contract inside

594 1117 2010.02 expand

595 1118 2010.02 reflect

596 1119 2010.02 reflect

597 1121 2010.02 reflect

598 1122 2010.02 reflect

599 1123 2010.02 reflect

600 1125 2010.02 contract inside

601 1127 2010.02 reflect

602 1129 2010.02 expand

603 1131 2010.02 expand

604 1133 2010.02 contract inside

605 1134 2010.02 reflect

606 1135 2010.02 reflect

607 1137 2010.02 reflect

608 1138 2010.02 reflect

609 1140 2010.02 reflect

610 1142 2010.02 expand

611 1143 2010.02 reflect

612 1144 2010.02 reflect

613 1146 2010.02 contract inside

614 1147 2010.02 reflect

615 1148 2010.02 reflect

616 1149 2010.02 reflect

617 1157 2010.02 shrink

618 1158 2010.02 reflect

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622 1171 2010.02 shrink

623 1173 2010.02 expand

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625 1175 2010.02 reflect

626 1177 2010.02 expand

627 1178 2010.02 reflect

628 1179 2010.02 reflect

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631 1184 2010.02 reflect

632 1186 2010.02 reflect

633 1187 2010.02 reflect

634 1189 2010.02 expand

635 1191 2010.02 contract inside

636 1192 2010.02 reflect

637 1193 2010.02 reflect

638 1195 2010.02 reflect

639 1197 2010.02 expand

640 1199 2010.02 expand

641 1200 2010.02 reflect

642 1202 2010.02 reflect

643 1204 2010.02 contract inside

644 1206 2010.02 contract inside

645 1208 2010.02 expand

646 1209 2010.02 reflect

647 1211 2010.02 expand

648 1212 2010.02 reflect

649 1213 2010.02 reflect

650 1215 2010.02 contract inside

651 1217 2010.02 expand

652 1218 2010.02 reflect

653 1219 2010.02 reflect

654 1221 2010.02 reflect

655 1223 2010.02 expand

656 1224 2010.02 reflect

657 1226 2010.02 expand

658 1227 2010.02 reflect

659 1228 2010.02 reflect

660 1230 2010.02 reflect

661 1238 2010.02 shrink

662 1240 2010.02 reflect

663 1242 2010.02 expand

664 1243 2010.02 reflect

665 1245 2010.02 contract inside

666 1246 2010.02 reflect

667 1247 2010.02 reflect

668 1249 2010.02 expand

669 1251 2010.02 contract inside

670 1253 2010.02 expand

671 1261 2010.02 shrink

672 1262 2010.02 reflect

673 1263 2010.02 reflect

674 1265 2010.02 contract inside

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676 1269 2010.02 expand

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678 1271 2010.02 reflect

679 1273 2010.02 contract inside

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687 1287 2010.02 contract inside

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690 1293 2010.02 expand

691 1295 2010.02 contract inside

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693 1297 2010.02 reflect

694 1298 2010.02 reflect

695 1300 2010.02 expand

696 1301 2010.02 reflect

697 1303 2010.02 expand

698 1305 2010.02 contract inside

699 1306 2010.02 reflect

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703 1312 2010.02 expand

704 1313 2010.02 reflect

705 1315 2010.02 reflect

706 1317 2010.02 contract inside

707 1319 2010.02 reflect

708 1321 2010.02 reflect

709 1322 2010.02 reflect

710 1324 2010.02 contract inside

711 1326 2010.02 reflect

712 1328 2010.02 contract inside

713 1330 2010.02 contract inside

714 1338 2010.02 shrink

715 1340 2010.02 contract inside

716 1342 2010.02 contract inside

717 1344 2010.02 contract inside

718 1346 2010.02 reflect

719 1348 2010.02 contract inside

720 1350 2010.02 contract inside

721 1351 2010.02 reflect

722 1353 2010.02 contract inside

723 1361 2010.02 shrink

724 1363 2010.02 contract outside

725 1365 2010.02 contract inside

726 1367 2010.02 contract inside

727 1369 2010.02 contract inside

728 1370 2010.02 reflect

729 1372 2010.02 contract inside

730 1374 2010.02 reflect

731 1376 2010.02 contract inside

732 1378 2010.02 reflect

733 1380 2010.02 contract inside

734 1388 2010.02 shrink

735 1390 2010.02 contract inside

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737 1394 2010.02 contract inside

738 1395 2010.02 reflect

739 1396 2010.02 reflect

740 1398 2010.02 expand

741 1400 2010.02 contract inside

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743 1416 2010.02 shrink

744 1418 2010.02 contract inside

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829 1570 2010.02 expand

830 1571 2010.02 reflect

831 1573 2010.02 contract inside

832 1574 2010.02 reflect

833 1582 2010.02 shrink

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835 1591 2010.02 shrink

836 1599 2010.02 shrink

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970 1836 2010.02 shrink

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972 1838 2010.02 reflect

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975 1850 2010.02 contract inside

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977 1860 2010.02 shrink

978 1868 2010.02 shrink

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988 1892 2010.02 reflect

989 1894 2010.02 contract inside

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997 1910 2010.02 reflect

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1011 1940 2010.02 contract inside

1012 1942 2010.02 contract inside

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1014 1946 2010.02 reflect

1015 1948 2010.02 contract inside

1016 1949 2010.02 reflect

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1021 1962 2010.02 reflect

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1026 1976 2010.02 contract inside

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1035 2002 2010.02 contract inside

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1037 2005 2010.02 contract inside

1038 2006 2010.02 reflect

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1040 2016 2010.02 shrink

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1042 2019 2010.02 expand

1043 2020 2010.02 reflect

1044 2021 2010.02 reflect

1045 2023 2010.02 contract inside

1046 2025 2010.02 reflect

1047 2027 2010.02 expand

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1055 2045 2010.02 shrink

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1086 2099 2010.02 expand

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1089 2104 2010.02 contract inside

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1191 2291 2010.02 reflect

1192 2292 2010.02 reflect

1193 2300 2010.02 shrink

1194 2302 2010.02 contract inside

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1196 2311 2010.02 reflect

1197 2313 2010.02 contract outside

1198 2315 2010.02 contract inside

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1201 2321 2010.02 reflect

1202 2323 2010.02 reflect

1203 2331 2010.02 shrink

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1273 2498 2010.02 shrink

1274 2499 2010.02 reflect

1275 2500 2010.02 reflect

Exiting: Maximum number of function evaluations has been exceeded

- increase MaxFunEvals option.

Current function value: 2010.016848

FMINSEARCH terminated.

**x =[209.7713,0.7522,3.0866,1.1282,0.4909,0.0068];**

**fval =2.0100e+003**

exitflag = -1

output =

problemtype: 'unconstrained'

rngstate: [1x1 struct]

generations: 176

funccount: 20200

message: [1x225 char]

population, Scores;

Sending a stop signal to all the labs ... stopped.

Caculation finished and the elapsedTime= 84.0388hours

**P\_asterisk =10.0143; L =0.9999; delta =-7.9186e-005;**

**penaltyfun1 =0.1584; penaltyfun2 =0; penaltyfun5 =2000;**

Elapsed time is 52.763178 seconds.