>> matlabpool open local1 12

Starting matlabpool using the 'local1' configuration ... connected to 12 labs.

Best Mean Stall

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

1 200 14.49 7.142e+004 0

2 300 14.49 -1.081e+004 1

3 400 14.49 6739 2

4 500 0.5771 5.039e+005 0

5 600 0.5771 8.81e+005 1

6 700 0.5771 2383 0

7 800 0.5771 8187 1

8 900 0.5771 -1373 2

9 1000 0.5771 3.432e+004 3

10 1100 0.5771 1.419e+004 4

11 1200 0.5771 2.497e+004 5

12 1300 0.5771 3.786e+004 6

13 1400 0.5771 6985 7

14 1500 0.5771 7321 8

15 1600 0.5771 6690 9

16 1700 0.5771 5123 10

17 1800 0.5771 5296 11

18 1900 0.5771 6287 12

19 2000 0.5771 5.406e+005 13

20 2100 0.5771 6.082e+005 14

21 2200 0.5771 7628 15

22 2300 0.5771 5045 16

23 2400 0.5771 7598 17

24 2500 0.5771 5140 18

25 2600 0.5771 5020 19

26 2700 0.5771 5361 20

27 2800 0.5771 4526 21

28 2900 0.5771 7848 22

29 3000 0.5771 8785 23

30 3100 0.5771 6294 24

31 3200 0.5771 6360 25

32 3300 0.5771 4863 26

33 3400 0.5771 4561 27

34 3500 0.5771 4356 28

35 3600 0.5771 6747 29

36 3700 0.5771 5832 30

37 3800 0.5771 1.895e+004 31

38 3900 0.3719 3.292e+004 0

39 4000 0.3719 4601 1

40 4100 0.3719 4116 2

41 4200 0.3719 4221 3

42 4300 0.3719 4722 0

43 4400 0.3719 4844 1

44 4500 0.3719 4126 0

45 4600 0.3719 4767 1

46 4700 0.3719 3901 2

47 4800 0.3719 4276 3

48 4900 0.3719 3792 4

49 5000 0.3719 4118 5

50 5100 0.3719 3706 6

51 5200 0.3719 9457 7

52 5300 0.3719 6915 8

53 5400 0.3719 3866 9

54 5500 0.3719 3902 10

55 5600 0.3719 5055 11

56 5700 0.3719 3380 12

57 5800 0.3719 3872 13

58 5900 0.3719 3936 14

59 6000 0.3719 6229 15

60 6100 0.3719 3559 16

61 6200 0.3719 3692 17

62 6300 0.3719 3039 18

63 6400 0.255 5431 0

64 6500 0.255 5219 1

65 6600 0.255 5317 2

66 6700 0.255 3229 3

67 6800 0.255 2791 4

68 6900 0.255 2804 5

69 7000 0.255 2950 6

70 7100 0.255 4575 7

71 7200 0.255 3558 8

72 7300 0.255 3315 9

73 7400 0.255 3202 10

74 7500 0.255 2958 11

75 7600 0.255 2643 12

76 7700 0.255 4133 13

77 7800 0.255 4148 14

78 7900 0.255 3662 15

79 8000 0.255 2946 16

80 8100 0.255 2987 17

81 8200 0.255 2857 18

82 8300 0.255 2446 19

83 8400 0.255 2305 20

84 8500 0.255 2964 21

85 8600 0.255 2775 22

86 8700 0.255 3014 23

87 8800 0.255 2712 24

88 8900 0.255 2731 25

89 9000 0.1387 3512 0

90 9100 0.1387 3418 1

91 9200 0.1387 3030 2

92 9300 0.1387 2929 3

93 9400 0.1387 2353 4

94 9500 0.1387 2314 5

95 9600 0.1387 2194 6

96 9700 0.1387 2233 7

97 9800 0.1387 2300 8

98 9900 0.1387 2537 9

99 10000 0.1387 2445 10

100 10100 0.1387 2738 11

101 10200 0.1387 2893 12

102 10300 0.1387 1939 13

103 10400 0.1387 1996 14

104 10500 0.1387 1983 15

105 10600 0.1387 1999 16

106 10700 0.1387 2157 17

107 10800 0.1387 1920 18

108 10900 0.1387 1753 19

109 11000 0.1387 1513 20

110 11100 0.1387 1668 21

111 11200 0.1387 1587 22

112 11300 0.1387 1709 23

113 11400 0.1387 1958 24

114 11500 0.1387 1976 25

115 11600 0.1387 1892 26

116 11700 0.1387 1709 27

117 11800 0.1387 1683 28

118 11900 0.1387 1967 29

119 12000 0.1387 1831 30

120 12100 0.1387 1672 31

121 12200 0.1387 1699 32

122 12300 0.1387 1565 33

123 12400 0.1387 1632 34

124 12500 0.1387 1842 35

125 12600 0.1387 2006 36

126 12700 0.1387 1775 37

127 12800 0.1387 1893 38

128 12900 0.1387 1831 39

129 13000 0.1358 1606 0

130 13100 0.1358 1645 1

131 13200 0.1358 1751 2

132 13300 0.1358 1695 3

133 13400 0.1358 2395 4

134 13500 0.1358 1915 5

135 13600 0.1358 1891 6

136 13700 0.1358 1769 7

137 13800 0.1358 1647 8

138 13900 0.1358 1195 9

139 14000 0.1358 1058 10

140 14100 0.1358 1269 11

141 14200 0.1358 1332 12

142 14300 0.1358 1307 13

143 14400 0.1358 1195 14

144 14500 0.1358 1158 15

145 14600 0.1358 1106 16

146 14700 0.1358 1172 17

147 14800 0.1358 939.1 18

148 14900 0.1358 1099 19

149 15000 0.1358 1098 20

150 15100 0.1358 1060 21

151 15200 0.1358 1197 22

152 15300 0.1358 1057 23

153 15400 0.1358 826 24

154 15500 0.1358 766.4 25

155 15600 0.1358 992.3 26

156 15700 0.1358 958.7 27

157 15800 0.09584 782.4 0

158 15900 0.09584 785.3 0

159 16000 0.09584 856.4 1

160 16100 0.09584 670.9 2

161 16200 0.09584 845.5 3

162 16300 0.09584 820.2 4

163 16400 0.09584 739.9 0

164 16500 0.09584 787 1

165 16600 0.09584 793.7 0

166 16700 0.09584 748.4 1

167 16800 0.09584 684.2 2

168 16900 0.09584 577.7 3

169 17000 0.09584 478.6 4

170 17100 0.09584 418.4 5

171 17200 0.09584 370.4 6

172 17300 0.09584 459.9 7

173 17400 0.09584 536.3 8

174 17500 0.09584 481.5 9

175 17600 0.09584 406.9 10

176 17700 0.09584 353.7 11

177 17800 0.09584 282.4 12

178 17900 0.09584 316.2 13

179 18000 0.09584 259 14

180 18100 0.09584 298 15

181 18200 0.06283 259.6 0

182 18300 0.06283 285.3 1

183 18400 0.03449 207.7 0

184 18500 0.03449 173.8 0

185 18600 0.03449 198.1 1

186 18700 0.03449 291.5 2

187 18800 0.03449 219.1 0

188 18900 0.03449 185.6 1

189 19000 0.03449 204.4 2

190 19100 0.03449 159.7 3

191 19200 0.02219 118 0

192 19300 0.02219 80.73 1

193 19400 0.02219 69.4 2

194 19500 0.02219 72.42 3

195 19600 0.02219 44.71 4

196 19700 0.02219 44.55 5

197 19800 0.02219 38.99 6

198 19900 0.02219 30.19 7

199 20000 0.02219 19.34 8

200 20100 0.02219 15.33 9

Optimization terminated: maximum number of generations exceeded.

Switching to the hybrid optimization algorithm (FMINSEARCH).

Iteration Func-count min f(x) Procedure

0 1 0.022191

1 11 0.0171064 initial simplex

2 12 0.0171064 reflect

3 14 0.0171064 contract inside

4 16 0.0171064 contract inside

5 18 0.0171064 contract inside

6 20 0.0171064 contract inside

7 21 0.0171064 reflect

8 22 0.0171064 reflect

9 24 0.0171064 contract outside

10 26 0.0171064 contract inside

11 28 0.0171064 contract inside

12 29 0.0171064 reflect

13 31 0.0171064 contract inside

14 33 0.0171064 contract inside

15 35 0.0171064 contract outside

16 37 0.0171064 contract inside

17 39 0.0171064 contract inside

18 41 0.0171064 contract inside

19 43 0.0171064 contract inside

20 44 0.0171064 reflect

21 46 0.0171064 contract inside

22 47 0.0171064 reflect

23 49 0.0171064 contract inside

24 51 0.0171064 contract inside

25 53 0.0171064 contract inside

26 55 0.0171064 contract inside

27 56 0.0171064 reflect

28 58 0.0171064 contract inside

29 60 0.0171064 contract inside

30 62 0.0171064 contract outside

31 64 0.0171064 contract inside

32 66 0.0171064 contract inside

33 68 0.0171064 contract inside

34 69 0.0171064 reflect

35 71 0.0171064 contract inside

36 73 0.0171064 contract inside

37 75 0.0171064 contract inside

38 77 0.0171064 contract inside

39 78 0.0171064 reflect

40 80 0.0171064 contract inside

41 82 0.0171064 contract inside

42 84 0.0171064 contract inside

43 86 0.0171064 contract outside

44 88 0.0171064 contract inside

45 90 0.0171064 contract inside

46 92 0.0171064 contract inside

47 94 0.0171064 contract inside

48 96 0.0171064 contract inside

49 98 0.0171064 contract outside

50 100 0.0171064 contract inside

51 101 0.0171064 reflect

52 103 0.0171064 contract inside

53 105 0.0171064 contract inside

54 107 0.0171064 contract inside

55 109 0.0171064 contract inside

56 111 0.0171064 contract inside

57 113 0.0171064 contract inside

58 115 0.0171064 contract inside

59 116 0.0171064 reflect

60 118 0.0171064 contract inside

61 120 0.0171064 contract inside

62 121 0.0171064 reflect

63 123 0.0171064 contract inside

64 124 0.0171064 reflect

65 126 0.0171064 contract inside

66 127 0.0171064 reflect

67 129 0.0171064 contract inside

68 131 0.0171064 contract inside

69 133 0.0171064 contract inside

70 135 0.0171064 contract inside

71 137 0.0171064 contract inside

72 139 0.0171064 contract outside

73 141 0.0171064 contract inside

74 143 0.0171064 contract inside

75 145 0.0171064 contract inside

76 147 0.0171064 contract inside

77 149 0.0171064 contract inside

78 151 0.0171064 contract inside

79 153 0.0171064 contract outside

80 155 0.0171064 contract inside

81 157 0.0171064 contract inside

82 159 0.0171064 contract inside

83 161 0.0171064 contract inside

84 162 0.0171064 reflect

85 164 0.0171064 contract inside

86 166 0.0171064 contract inside

87 168 0.0171064 contract inside

88 170 0.0171064 contract inside

89 171 0.0171064 reflect

90 173 0.0171064 contract inside

91 175 0.0171064 contract inside

92 177 0.0171064 contract outside

93 179 0.0171064 contract inside

94 181 0.0171064 contract inside

95 183 0.0171064 contract inside

96 184 0.0171064 reflect

97 186 0.0171064 contract outside

98 188 0.0171064 contract inside

99 190 0.0156255 contract inside

100 192 0.0138833 contract inside

101 194 0.0117371 contract inside

102 195 0.0117371 reflect

103 196 0.0117371 reflect

104 198 0.0115816 contract inside

105 200 0.0107218 contract inside

106 202 0.00996559 contract inside

107 203 0.00996559 reflect

108 205 0.00996559 contract inside

109 207 0.008751 contract inside

110 209 0.008751 contract inside

111 211 0.00846775 contract inside

112 213 0.00846775 contract inside

113 215 0.00727191 contract inside

114 217 0.00608054 contract inside

115 219 0.00472279 contract inside

116 220 0.00472279 reflect

117 222 0.00472279 contract inside

118 224 0.00472279 contract inside

119 226 0.00472279 contract inside

120 228 0.00430151 contract inside

121 230 0.00382216 contract inside

122 231 0.00382216 reflect

123 233 0.00382216 contract inside

124 235 0.00382216 contract inside

125 237 0.00353762 contract inside

126 239 0.00348392 contract outside

127 241 0.00323874 contract inside

128 243 0.00295707 contract inside

129 245 0.00264718 contract inside

130 247 0.00236606 contract inside

131 248 0.00236606 reflect

132 250 0.00236606 contract inside

133 252 0.00236606 contract inside

134 254 0.00228858 contract inside

135 256 0.00228858 contract inside

136 258 0.00218863 contract inside

137 260 0.00202431 contract inside

138 262 0.00192308 contract inside

139 264 0.00173626 contract inside

140 265 0.00173626 reflect

141 267 0.0015843 contract inside

142 269 0.0015843 contract inside

143 271 0.00150226 contract inside

144 273 0.00150226 contract inside

145 275 0.00146211 contract inside

146 277 0.00140455 contract inside

147 278 0.00140455 reflect

148 280 0.00140455 contract inside

149 282 0.00136241 contract inside

150 284 0.00135475 contract inside

151 286 0.00127537 contract inside

152 288 0.00115932 contract inside

153 290 0.00108688 contract inside

154 291 0.00108688 reflect

155 293 0.00108688 contract inside

156 295 0.00108688 contract inside

157 297 0.00106275 contract inside

158 299 0.00106275 contract inside

159 301 0.00104462 contract inside

160 303 0.00101718 contract inside

161 305 0.000977859 contract inside

162 306 0.000977859 reflect

163 308 0.000972241 contract inside

164 310 0.000972241 contract inside

165 312 0.000918722 contract inside

166 314 0.000912392 contract inside

167 316 0.000889772 contract inside

168 318 0.000872978 contract inside

169 320 0.000852513 contract inside

170 321 0.000852513 reflect

171 323 0.000852513 contract inside

172 325 0.000852513 contract inside

173 327 0.000837126 contract inside

174 329 0.000826653 contract inside

175 330 0.000826653 reflect

176 332 0.000826653 contract inside

177 334 0.000826653 contract inside

178 336 0.000811943 contract inside

179 338 0.000811943 contract inside

180 340 0.000798227 contract inside

181 342 0.000798227 contract inside

182 344 0.00078989 contract inside

183 346 0.00078989 contract outside

184 348 0.000786122 contract inside

185 350 0.000776 contract inside

186 352 0.000776 contract inside

187 354 0.000776 contract inside

188 356 0.000772216 contract inside

189 358 0.000766144 contract inside

190 359 0.000766144 reflect

191 361 0.000764895 contract inside

192 363 0.000762735 contract inside

193 365 0.000762297 contract inside

194 367 0.000756852 contract inside

195 369 0.000755086 contract inside

196 371 0.000751646 contract inside

197 372 0.000751646 reflect

198 374 0.000750272 contract inside

199 376 0.000750272 contract inside

200 378 0.000749601 contract inside

201 380 0.000749297 contract inside

202 382 0.000745419 contract inside

203 384 0.000743824 contract inside

204 386 0.000741795 contract inside

205 387 0.000741795 reflect

206 389 0.000741795 contract inside

207 391 0.000741219 contract inside

208 393 0.00074103 contract inside

209 395 0.000738778 contract inside

210 397 0.000738132 contract inside

211 398 0.000738132 reflect

212 400 0.000738132 contract inside

213 402 0.000738132 contract inside

214 404 0.000737763 contract inside

215 406 0.000736502 contract inside

216 408 0.000735339 contract inside

217 409 0.000735339 reflect

218 411 0.000735285 contract inside

219 413 0.000734889 contract inside

220 415 0.000734363 contract inside

221 417 0.000734363 contract inside

222 419 0.000733458 contract inside

223 421 0.000733092 contract inside

224 423 0.000733092 contract inside

225 425 0.000732866 contract inside

226 427 0.000732436 contract inside

227 428 0.000732436 reflect

228 430 0.000731827 contract inside

229 432 0.000731627 contract inside

230 434 0.000731627 contract outside

231 436 0.000731627 contract inside

232 438 0.000731573 contract inside

233 440 0.000731497 contract inside

234 442 0.00073099 contract inside

235 444 0.00073099 contract inside

236 446 0.000730804 contract inside

237 448 0.000730587 contract inside

238 450 0.00073028 contract inside

239 451 0.00073028 reflect

240 453 0.000730266 contract inside

241 455 0.000730144 contract inside

242 457 0.000730018 contract inside

243 458 0.000730018 reflect

244 460 0.000730018 contract inside

245 462 0.000729998 contract inside

246 464 0.000729998 contract inside

247 466 0.000729894 contract inside

248 468 0.000729894 contract inside

249 470 0.000729761 contract inside

250 472 0.000729612 contract inside

251 474 0.000729425 contract inside

252 475 0.000729425 reflect

253 477 0.000729425 contract inside

254 479 0.000729425 contract inside

255 481 0.000729425 contract inside

256 483 0.000729385 contract inside

257 485 0.000729344 contract inside

258 486 0.000729344 reflect

259 488 0.000729332 contract inside

260 490 0.000729332 contract inside

261 492 0.000729332 contract inside

262 494 0.000729294 contract inside

263 496 0.000729204 contract inside

264 497 0.000729204 reflect

265 499 0.000729175 contract inside

266 501 0.000729143 contract inside

267 503 0.000729143 contract inside

268 505 0.000729141 contract inside

269 507 0.000729134 contract inside

270 509 0.000729117 contract inside

271 511 0.000729088 contract inside

272 513 0.000729072 contract inside

273 514 0.000729072 reflect

274 516 0.000729072 contract inside

275 518 0.000729064 contract inside

276 520 0.00072904 contract inside

277 522 0.000729019 contract inside

278 524 0.000729006 contract inside

279 525 0.000729006 reflect

280 527 0.000729006 contract inside

281 529 0.000729006 contract inside

282 531 0.000728999 contract inside

283 533 0.000728999 contract inside

284 535 0.000728985 contract inside

285 537 0.000728985 contract inside

286 539 0.000728977 contract inside

287 541 0.000728969 contract inside

288 543 0.000728959 contract outside

289 545 0.000728956 contract inside

290 547 0.000728954 contract inside

291 549 0.000728952 contract inside

292 551 0.000728947 contract inside

293 553 0.000728942 contract inside

294 554 0.000728942 reflect

295 556 0.000728942 contract inside

296 558 0.00072894 contract inside

297 560 0.00072894 contract inside

298 562 0.000728937 contract inside

299 564 0.000728932 contract inside

300 566 0.000728925 contract inside

301 567 0.000728925 reflect

302 569 0.000728925 contract inside

303 571 0.000728925 contract inside

304 573 0.000728924 contract inside

305 575 0.000728923 contract inside

306 577 0.00072892 contract inside

307 579 0.00072892 contract inside

308 581 0.00072892 contract inside

309 583 0.000728918 contract inside

310 585 0.000728916 contract outside

311 587 0.000728916 contract inside

312 589 0.000728913 contract inside

313 591 0.000728913 contract inside

314 593 0.000728912 contract inside

315 595 0.000728911 contract inside

316 596 0.000728911 reflect

317 598 0.000728911 contract inside

318 600 0.00072891 contract inside

319 602 0.00072891 contract inside

320 604 0.00072891 contract inside

321 606 0.000728909 contract inside

322 608 0.000728908 contract inside

323 610 0.000728908 contract outside

324 612 0.000728908 contract inside

325 614 0.000728907 contract inside

326 616 0.000728907 contract inside

327 618 0.000728906 contract inside

328 619 0.000728906 reflect

329 621 0.000728906 contract inside

330 623 0.000728906 contract inside

331 625 0.000728906 contract inside

332 627 0.000728906 contract inside

333 629 0.000728906 contract inside

334 631 0.000728905 contract inside

335 633 0.000728905 contract inside

336 635 0.000728904 contract inside

337 636 0.000728904 reflect

338 638 0.000728904 contract inside

339 640 0.000728904 contract inside

340 642 0.000728904 contract inside

341 644 0.000728904 contract inside

342 645 0.000728904 reflect

343 647 0.000728904 contract inside

344 649 0.000728904 contract inside

345 651 0.000728904 contract inside

346 653 0.000728904 contract inside

347 655 0.000728904 contract inside

348 657 0.000728903 contract inside

349 658 0.000728903 reflect

350 660 0.000728903 contract inside

351 662 0.000728903 contract inside

352 664 0.000728903 contract inside

353 666 0.000728903 contract inside

354 668 0.000728903 contract inside

355 670 0.000728903 contract inside

356 672 0.000728903 contract inside

357 673 0.000728903 reflect

358 675 0.000728903 contract inside

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361 681 0.000728903 contract inside

362 683 0.000728903 contract inside

363 685 0.000728903 contract inside

364 686 0.000728903 reflect

365 688 0.000728903 contract inside

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369 696 0.000728903 contract inside

370 698 0.000728903 contract inside

371 700 0.000728903 contract inside

372 702 0.000728903 contract outside

373 704 0.000728903 contract inside

374 706 0.000728903 contract inside

375 707 0.000728903 reflect

376 709 0.000728903 contract inside

377 711 0.000728903 contract inside

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389 735 0.000728903 contract inside

390 737 0.000728903 contract inside

391 739 0.000728903 contract inside

392 740 0.000728903 reflect

393 742 0.000728903 contract inside

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396 748 0.000728903 contract inside

397 750 0.000728903 contract inside

398 752 0.000728903 contract inside

399 753 0.000728903 reflect

400 755 0.000728903 contract inside

401 757 0.000728903 contract inside

402 759 0.000728903 contract inside

403 761 0.000728903 contract inside

404 763 0.000728903 contract inside

405 764 0.000728903 reflect

406 766 0.000728903 contract inside

407 768 0.000728903 contract outside

408 770 0.000728903 contract inside

409 772 0.000728903 contract outside

410 774 0.000728903 contract inside

411 775 0.000728903 reflect

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423 799 0.000728903 contract inside

424 801 0.000728903 contract inside

425 803 0.000728902 contract inside

426 805 0.000728902 contract inside

427 806 0.000728902 reflect

428 807 0.000728902 reflect

429 809 0.000728902 contract inside

430 811 0.000728902 contract inside

431 813 0.000728902 contract inside

432 815 0.000728902 contract inside

433 816 0.000728902 reflect

434 818 0.000728902 contract inside

435 820 0.000728902 contract inside

436 822 0.000728902 contract inside

437 823 0.000728902 reflect

438 825 0.000728902 contract inside

439 826 0.000728902 reflect

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442 831 0.000728902 reflect

443 833 0.000728902 contract inside

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445 836 0.000728902 reflect

446 838 0.000728902 contract inside

447 840 0.000728902 contract inside

448 842 0.000728902 contract inside

449 843 0.000728902 reflect

450 845 0.000728902 contract inside

451 847 0.000728902 reflect

452 849 0.000728902 reflect

453 850 0.000728902 reflect

454 851 0.000728902 reflect

455 853 0.000728902 contract inside

456 855 0.000728902 expand

457 857 0.000728902 contract inside

458 858 0.000728902 reflect

459 859 0.000728902 reflect

460 861 0.000728902 expand

461 862 0.000728902 reflect

462 863 0.000728902 reflect

463 864 0.000728902 reflect

464 866 0.000728902 contract inside

465 867 0.000728902 reflect

466 869 0.000728902 contract inside

467 871 0.000728902 expand

468 873 0.000728902 contract inside

469 875 0.000728902 contract inside

470 876 0.000728902 reflect

471 877 0.000728902 reflect

472 878 0.000728902 reflect

473 880 0.000728902 contract inside

474 881 0.000728902 reflect

475 882 0.000728902 reflect

476 884 0.000728902 reflect

477 886 0.000728902 contract inside

478 888 0.000728902 reflect

479 890 0.000728902 reflect

480 892 0.000728902 expand

481 893 0.000728902 reflect

482 894 0.000728902 reflect

483 895 0.000728902 reflect

484 896 0.000728902 reflect

485 898 0.000728902 contract inside

486 899 0.000728902 reflect

487 901 0.000728902 contract inside

488 903 0.000728902 contract inside

489 905 0.000728902 reflect

490 907 0.000728902 contract inside

491 909 0.000728902 reflect

492 911 0.000728902 expand

493 912 0.000728902 reflect

494 913 0.000728902 reflect

495 914 0.000728902 reflect

496 916 0.000728902 reflect

497 918 0.000728902 expand

498 919 0.000728902 reflect

499 920 0.000728902 reflect

500 922 0.000728902 expand

501 923 0.000728902 reflect

502 925 0.000728902 contract inside

503 926 0.000728902 reflect

504 928 0.000728902 contract inside

505 929 0.000728902 reflect

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524 962 0.000728902 expand

525 963 0.000728902 reflect

526 964 0.000728902 reflect

527 966 0.000728902 contract inside

528 978 0.000728902 shrink

529 979 0.000728902 reflect

530 981 0.000728902 expand

531 983 0.000728902 contract inside

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541 995 0.000728902 contract inside

542 1007 0.000728902 shrink

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546 1013 0.000728902 contract inside

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578 1062 0.000728902 expand

579 1064 0.000728902 contract inside

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583 1069 0.000728902 contract inside

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594 1096 0.000728902 contract inside

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596 1099 0.000728902 expand

597 1100 0.000728902 reflect

598 1102 0.000728902 contract inside

599 1104 0.000728902 contract inside

600 1105 0.000728902 reflect

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602 1108 0.000728902 expand

603 1110 0.000728902 contract inside

604 1111 0.000728902 reflect

605 1112 0.000728902 reflect

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607 1115 0.000728902 expand

608 1116 0.000728902 reflect

609 1118 0.000728902 contract inside

610 1119 0.000728902 reflect

611 1120 0.000728902 reflect

612 1122 0.000728902 expand

613 1124 0.000728902 contract inside

614 1125 0.000728902 reflect

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618 1131 0.000728902 expand

619 1133 0.000728902 contract inside

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630 1150 0.000728902 contract inside

631 1152 0.000728902 expand

632 1153 0.000728902 reflect

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634 1156 0.000728902 expand

635 1157 0.000728902 reflect

636 1159 0.000728902 contract inside

637 1160 0.000728902 reflect

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658 1192 0.000728902 expand

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662 1197 0.000728902 expand

663 1199 0.000728902 contract inside

664 1200 0.000728902 reflect

665 1202 0.000728902 contract inside

666 1203 0.000728902 reflect

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669 1207 0.000728902 reflect

670 1209 0.000728902 expand

671 1211 0.000728902 contract inside

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698 1251 0.000728902 contract inside

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700 1254 0.000728902 contract inside

701 1256 0.000728902 contract inside

702 1258 0.000728902 contract inside

703 1260 0.000728902 contract inside

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715 1280 0.000728902 contract inside

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723 1291 0.000728902 contract inside

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725 1295 0.000728902 contract inside

726 1296 0.000728902 reflect

727 1298 0.000728902 contract inside

728 1299 0.000728902 reflect

729 1300 0.000728902 reflect

730 1302 0.000728902 reflect

731 1304 0.000728902 expand

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733 1307 0.000728902 expand

734 1308 0.000728902 reflect

735 1310 0.000728902 contract inside

736 1311 0.000728902 reflect

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746 1324 0.000728902 reflect

747 1326 0.000728902 reflect

748 1328 0.000728902 reflect

749 1330 0.000728902 contract inside

750 1332 0.000728902 contract inside

751 1333 0.000728902 reflect

752 1335 0.000728902 reflect

753 1337 0.000728902 contract inside

754 1339 0.000728902 expand

755 1340 0.000728902 reflect

756 1341 0.000728902 reflect

757 1343 0.000728902 contract inside

758 1344 0.000728902 reflect

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760 1347 0.000728902 expand

761 1349 0.000728902 contract inside

762 1350 0.000728902 reflect

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765 1354 0.000728902 expand

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767 1356 0.000728902 reflect

768 1358 0.000728902 contract inside

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776 1369 0.000728902 reflect

777 1370 0.000728902 reflect

778 1372 0.000728902 contract inside

779 1374 0.000728902 reflect

780 1376 0.000728902 contract inside

781 1388 0.000728902 shrink

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786 1394 0.000728902 contract inside

787 1396 0.000728902 expand

788 1398 0.000728902 contract inside

789 1399 0.000728902 reflect

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793 1415 0.000728902 shrink

794 1417 0.000728902 contract outside

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798 1422 0.000728902 contract inside

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804 1441 0.000728902 contract inside

805 1443 0.000728902 reflect

806 1455 0.000728902 shrink

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809 1458 0.000728902 reflect

810 1460 0.000728902 contract inside

811 1461 0.000728902 reflect

812 1473 0.000728902 shrink

813 1474 0.000728902 reflect

814 1476 0.000728902 contract inside

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817 1480 0.000728902 contract inside

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823 1508 0.000728902 shrink

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826 1512 0.000728902 contract inside

827 1513 0.000728902 reflect

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848 1561 0.000728902 contract inside

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850 1564 0.000728902 contract inside

851 1566 0.000728902 contract inside

852 1578 0.000728902 shrink

853 1580 0.000728902 contract inside

854 1581 0.000728902 reflect

855 1583 0.000728902 contract outside

856 1585 0.000728902 contract inside

Optimization terminated:

the current x satisfies the termination criteria using OPTIONS.TolX of 1.000000e-015

and F(X) satisfies the convergence criteria using OPTIONS.TolFun of 1.000000e-015

FMINSEARCH terminated.

**x =[12.8772,1.0664,0.0353,1.3488,0.3911,-1.5705,69.7031,28.6843,14.5563,0.1250];**

**fval =7.2890e-004;**

exitflag =0;

output =

problemtype: 'unconstrained'

rngstate: [1x1 struct]

generations: 200

funccount: 21685

message: [1x274 char]

population =

Columns 1 through 7

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0373 0.0346 1.3378 0.4157 -1.5708 69.6943

12.8767 1.0662 0.2531 1.3485 0.3887 -1.5708 69.6943

12.8756 1.0658 0.1985 1.3441 0.3219 -1.5626 69.7316

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0635 0.0346 1.3485 0.3887 -1.5599 69.7390

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8722 1.0662 0.0306 1.3560 0.3895 -1.5723 69.7204

12.8767 1.0609 0.0346 1.3485 0.3878 -1.5708 69.7378

12.8747 1.0690 0.0313 1.3556 0.3917 -1.5739 69.6887

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0436 1.3434 0.3898 -1.5708 69.7368

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.1995 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0822 0.0346 1.3485 0.3831 -1.5708 69.6943

12.8767 1.0662 0.1995 1.3485 0.4017 -1.5708 69.7027

12.8703 1.0588 0.2585 1.3485 0.4016 -1.5651 69.7368

12.8767 1.0662 0.1995 1.3475 0.3887 -1.5708 69.7368

12.8767 1.0662 0.2053 1.3454 0.3890 -1.5687 69.7383

12.8767 1.0662 0.0346 1.3485 0.3844 -1.5708 69.6943

12.8768 1.0662 0.1995 1.3485 0.4017 -1.5656 69.7368

12.8677 1.0662 0.1858 1.3567 0.4100 -1.5713 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.7027

12.8767 1.0662 0.0346 1.3454 0.3887 -1.5687 69.6943

12.8767 1.0662 0.0346 1.3162 0.3887 -1.5708 69.6943

12.8695 1.0662 0.0247 1.3162 0.3887 -1.5705 69.6971

12.8590 1.0565 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0528 0.0452 1.3349 0.3887 -1.5686 69.7527

12.8767 1.0662 0.2700 1.3659 0.3954 -1.5708 69.7044

12.8767 1.0662 0.1995 1.3475 0.3844 -1.5623 69.7086

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8873 1.0662 0.1843 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.7368

12.8767 1.0662 0.0346 1.3485 0.3844 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0431 0.1995 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.1548 1.3485 0.3887 -1.5708 69.7587

12.8828 1.0662 0.2143 1.3485 0.3887 -1.5708 69.6686

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.2299 1.3418 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.7368

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.7368

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5670 69.6943

12.8767 1.0577 0.0241 1.3168 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8791 1.0662 0.0379 1.3485 0.3994 -1.5682 69.6912

12.8767 1.0698 0.2043 1.3485 0.3786 -1.5768 69.7363

12.8863 1.0596 0.1995 1.3437 0.3265 -1.5469 69.7368

12.8767 1.0668 0.0346 1.3485 0.3744 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8606 1.0662 0.0346 1.3581 0.3939 -1.5698 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.2531 1.3485 0.3844 -1.5708 69.7368

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.7485

12.8767 1.0662 0.1995 1.3485 0.3804 -1.5708 69.6878

12.8767 1.0662 0.1527 1.3485 0.3903 -1.5708 69.6943

12.8767 1.0698 0.0426 1.3530 0.4477 -1.5808 69.7383

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8703 1.0662 0.2585 1.3485 0.3887 -1.5708 69.6943

12.8971 1.0662 0.0389 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0098 1.3499 0.3887 -1.5708 69.7368

12.8971 1.0994 0.0346 1.3485 0.3804 -1.5929 69.7368

12.8803 1.0628 0.0346 1.3434 0.3863 -1.5708 69.6943

12.8767 1.0662 0.0272 1.3485 0.3887 -1.5469 69.6951

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5822 69.6943

12.8767 1.0662 0.1995 1.3485 0.3265 -1.5708 69.7368

12.8611 1.0662 0.2473 1.3424 0.4438 -1.5551 69.6943

12.8611 1.0662 0.2473 1.3424 0.3954 -1.5687 69.7044

12.8767 1.0662 0.1792 1.3485 0.3750 -1.5708 69.6943

12.8694 1.0621 0.2101 1.3511 0.3831 -1.5850 69.6739

12.8672 1.0500 0.1848 1.3361 0.4175 -1.5568 69.7223

12.8767 1.0662 0.0346 1.3485 0.3891 -1.5708 69.7368

12.8767 1.0662 0.0346 1.3620 0.3982 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.7368

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8688 1.0624 0.1843 1.3485 0.4438 -1.5708 69.6943

12.8677 1.0678 0.0501 1.3341 0.4100 -1.5713 69.6942

12.8520 1.0686 0.0346 1.3513 0.3896 -1.5919 69.6943

12.8767 1.0606 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8727 1.0601 0.1979 1.3405 0.3846 -1.5670 69.7326

12.8831 1.0623 0.0376 1.3531 0.3822 -1.5750 69.6939

12.8767 1.0662 0.1995 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8807 1.0369 0.0346 1.3648 0.3887 -1.5419 69.6943

12.8767 1.0662 0.0346 1.3521 0.3887 -1.5708 69.6943

12.8767 1.0662 0.0346 1.3485 0.3887 -1.5708 69.6943

12.8767 1.0662 0.2036 1.2892 0.4438 -1.5391 69.7440

12.8703 1.0662 0.2585 1.3529 0.3753 -1.5651 69.7368

12.8767 1.0662 0.1995 1.3485 0.3887 -1.5708 69.6943

Columns 8 through 10

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5352 0.1247

28.6948 14.5500 0.1247

28.6939 14.5520 0.1314

28.6829 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5336 0.1181

28.6948 14.5500 0.1247

28.6879 14.5479 0.1247

28.6788 14.5500 0.1281

28.6955 14.5517 0.1174

28.6948 14.5500 0.1247

28.6829 14.5500 0.1286

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.7422 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1255

28.6948 14.5500 0.1247

28.6694 14.5594 0.1349

28.6911 14.5500 0.1247

28.6948 14.5500 0.1247

28.6771 14.5500 0.1370

28.6932 14.5500 0.1247

28.7278 14.5500 0.1349

28.7044 14.5500 0.1396

28.6890 14.5500 0.1396

28.6948 14.5500 0.1247

28.6844 14.5500 0.1218

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6380 14.5500 0.1247

28.7079 14.5500 0.1247

28.6389 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1062

28.6818 14.5417 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1128

28.6948 14.5500 0.1247

28.6855 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6938 14.5564 0.1188

28.6948 14.5500 0.1247

28.6932 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1219

28.6938 14.5426 0.1296

28.6713 14.5500 0.1247

28.7297 14.5500 0.1203

28.6948 14.5500 0.1247

28.7422 14.5500 0.1247

28.6932 14.5876 0.1247

28.6948 14.5500 0.1247

28.6855 14.5393 0.1247

28.6829 14.5500 0.1247

28.6871 14.5500 0.1247

28.6938 14.6049 0.1065

28.6828 14.5500 0.1247

28.6948 14.5500 0.1035

28.6389 14.5417 0.1247

28.6829 14.5500 0.1247

28.6829 14.5500 0.1247

28.6976 14.5500 0.1286

28.6829 14.5624 0.1185

28.6948 14.5500 0.1247

28.6713 14.5500 0.1247

28.6735 14.5390 0.0983

28.6735 14.5500 0.0983

28.6948 14.5831 0.1247

28.7422 14.5500 0.1247

28.7108 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1382

28.6948 14.5687 0.1247

28.6829 14.5827 0.1247

28.6948 14.5500 0.1247

28.6716 14.5500 0.1247

28.6931 14.5449 0.1394

28.6948 14.5596 0.1247

28.6920 14.5582 0.1455

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6892 14.5557 0.1313

28.6859 14.5612 0.1246

28.6389 14.5500 0.1247

28.6948 14.5500 0.1247

28.6948 14.5500 0.1247

28.6864 14.5500 0.1247

28.7278 14.5500 0.1247

28.6948 14.5500 0.1247

28.6911 14.5500 0.1203

28.6829 14.5500 0.1247

28.6948 14.5500 0.1247

scores =

0.0222

0.0222

64.5747

2.6462

9.4293

1.1111

0.0222

5.2133

0.0222

21.4393

17.9588

8.6885

0.0222

10.3063

0.0222

1.6035

54.0236

1.5113

22.8865

3.5869

1.5424

0.1866

3.2372

38.4198

0.4035

2.5194

63.6025

60.1637

34.9451

2.9065

44.7720

6.0691

0.0222

3.4783

3.9803

5.1635

0.0222

0.0222

0.0222

54.7276

1.4373

1.5894

0.0222

24.4626

0.0222

1.8357

2.7261

1.9744

52.3666

0.0222

0.1336

0.0222

4.0651

12.0738

6.2011

9.6162

0.0222

23.5634

2.0304

0.2007

1.9604

2.8659

1.6941

27.4305

1.1265

14.4241

0.5271

1.8052

128.5952

0.0804

17.6893

20.3078

0.8260

34.3958

30.1301

1.0869

44.0585

16.1721

2.7142

45.9888

1.0958

3.4775

0.0222

19.6138

22.6160

44.2730

35.5620

0.0222

0.0222

4.2831

28.3925

6.9348

0.0222

0.0222

110.2774

5.5890

0.0222

148.8441

10.4655

1.6035

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

Did not find any pre-existing parallel jobs created by matlabpool.

Caculation finished and the elapsedTime= 51.5264hours

**x =[12.8772,1.0664,0.0353,1.3488,0.3911,-1.5705,69.7031,28.6843,14.5563,0.1250];**

**fval =7.2890e-004;**

**t\_flight =1.1858e+003; V\_flight =1.1571; AR =2.9375; Re =7.4208e+003;**

**Distance\_flight\_min0 =1.3721e+003; Distance\_flight\_min =7.2884e-004;**

**L =0.9999; delta =-7.0074e-005; P\_asterisk =21.0829;**

penaltyfun1 =0.1401; penaltyfun2 =0; penaltyfun5 =0; obj\_function =0.1409;

**由如下初始值计算而得：遗传200代+局部迭代搜索2000次**

**x\_start=[12,57.5\*pi/180,0.0001,45\*pi/180,2.357,-pi/2,70,29.31,15,0.356737];**

**下面为精确值：**

**x =[1.2877231e+001 1.0664349e+000 3.5329395e-002 1.3488149e+000 3.9109866e-001 -1.5704619e+000 6.9703094e+001 2.8684309e+001 1.4556300e+001 1.2495568e-001];**

**t\_flight =1.1856e+003; V\_flight =1.1571; AR =2.9375; Re =7.4208e+003;**

**Distance\_flight\_min0 =1.3719e+003; Distance\_flight\_min =7.2890e-004;**

**L =1.0000; delta =2.2206e-010; P\_asterisk =21.0855;**

**penaltyfun1 =4.4413e-007; penaltyfun2 =0; penaltyfun5 =0; obj\_function =7.2935e-004;**