>> 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 4090 6363 0

2 300 4071 6748 0

3 400 4071 6530 1

4 500 4058 6514 0

5 600 4041 6457 0

6 700 4030 6253 0

7 800 4022 6334 0

8 900 4012 6520 0

9 1000 4012 6345 0

10 1100 4000 6195 0

11 1200 4000 6016 0

12 1300 4000 6278 0

13 1400 4000 6058 0

14 1500 4000 5633 1

15 1600 4000 5395 0

16 1700 4000 5579 0

17 1800 4000 5831 0

18 1900 4000 5804 0

19 2000 4000 5876 0

20 2100 4000 5969 1

21 2200 4000 5630 0

22 2300 4000 5853 0

23 2400 4000 5622 0

24 2500 4000 5800 0

25 2600 4000 6018 0

26 2700 4000 6139 0

27 2800 4000 5846 1

28 2900 4000 5815 0

29 3000 4000 6008 1

30 3100 3999 5605 0

Best Mean Stall

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

31 3200 3999 5360 0

32 3300 3998 1.375e+004 0

33 3400 3998 1.11e+004 1

34 3500 3997 5615 0

35 3600 3997 5819 1

36 3700 3997 6373 0

37 3800 3997 5765 0

38 3900 3997 5936 1

39 4000 3997 5710 2

40 4100 3993 5688 0

41 4200 3991 5393 0

42 4300 3991 5569 0

43 4400 3989 5593 0

44 4500 3989 5813 1

45 4600 3984 5649 0

46 4700 3984 5558 0

47 4800 3976 5312 0

48 4900 3975 5530 0

49 5000 3970 5643 0

50 5100 3959 5463 0

51 5200 1972 5600 0

52 5300 1968 5867 0

53 5400 1962 5813 0

54 5500 1962 5507 1

55 5600 1960 5320 0

56 5700 1959 4904 0

57 5800 1955 4523 0

58 5900 1948 4437 0

59 6000 1946 4187 0

60 6100 1941 4370 0

Best Mean Stall

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

61 6200 1936 4448 0

62 6300 1936 4160 1

63 6400 1935 3588 0

64 6500 1926 3880 0

65 6600 1925 3841 0

66 6700 1877 3610 0

67 6800 1872 4181 0

68 6900 1872 4217 1

69 7000 1872 3873 2

70 7100 1848 3724 0

71 7200 1848 4013 1

72 7300 1848 4105 2

73 7400 1847 3467 0

74 7500 1841 3343 0

75 7600 1841 3368 1

76 7700 1833 3431 0

77 7800 1801 3495 0

78 7900 1792 3433 0

79 8000 1741 3391 0

80 8100 1741 3383 1

81 8200 1706 3322 0

82 8300 1648 2872 0

83 8400 1648 2788 1

84 8500 1648 2842 2

85 8600 1641 3242 0

86 8700 1641 3217 1

87 8800 1635 2731 0

88 8900 1628 2795 0

89 9000 1512 2683 0

90 9100 1500 2934 0

Best Mean Stall

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

91 9200 1500 2887 0

92 9300 1500 5094 1

93 9400 1488 4578 0

94 9500 1488 4767 1

95 9600 1464 2561 0

96 9700 1464 2472 1

97 9800 1414 2467 0

98 9900 1347 2296 0

99 10000 1298 2390 0

100 10100 1296 2360 0

101 10200 1263 2884 0

102 10300 1185 2860 0

103 10400 1173 2830 0

104 10500 1156 2856 0

105 10600 1137 2975 0

106 10700 1097 2730 0

107 10800 1022 2926 0

108 10900 1022 2677 1

109 11000 976.4 2244 0

110 11100 850.4 2716 0

111 11200 832.4 2977 0

112 11300 786.7 9.443e+004 0

113 11400 697.8 1.069e+005 0

114 11500 661.5 4190 0

115 11600 603.9 2108 0

116 11700 603.9 2130 1

117 11800 603.9 2002 2

118 11900 533.6 1957 0

119 12000 526.3 2067 0

120 12100 526.3 1751 1

Best Mean Stall

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

121 12200 524.9 1547 0

122 12300 524.9 1554 1

123 12400 498.6 1589 0

124 12500 445.3 1465 0

125 12600 377.5 1773 0

126 12700 377.5 1528 1

127 12800 253 1369 0

128 12900 253 1752 1

129 13000 253 1669 2

130 13100 253 1505 3

131 13200 253 1575 4

132 13300 253 1447 5

133 13400 253 1237 6

134 13500 253 1377 7

135 13600 212.3 1340 0

136 13700 212.3 1325 1

137 13800 142.2 1430 0

138 13900 116.8 1450 0

139 14000 110.2 1074 0

140 14100 110.2 942.3 1

141 14200 71.33 1011 0

142 14300 11.79 1108 0

143 14400 8.03 924.2 0

144 14500 4.824 972.4 0

145 14600 2.492 921.4 0

146 14700 2.492 970.6 1

147 14800 2.492 993.3 2

148 14900 0.9048 3050 0

149 15000 0.9048 3438 0

150 15100 0.9048 3582 1

Best Mean Stall

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

151 15200 0.9048 3932 2

152 15300 0.9048 4144 3

153 15400 0.9048 735.9 4

154 15500 0.9048 713.9 5

155 15600 0.9048 716.6 6

156 15700 0.9048 601.7 7

157 15800 0.9048 511.9 8

158 15900 0.9048 613.4 9

159 16000 0.9048 460.5 10

160 16100 0.9048 535.9 11

161 16200 0.9048 518.2 12

162 16300 0.9048 533.6 13

163 16400 0.9048 596.9 14

164 16500 0.9048 582.7 15

165 16600 0.9048 568.8 16

166 16700 0.9048 480.7 17

167 16800 0.9048 525.3 18

168 16900 0.9048 478.8 19

169 17000 0.9048 395.5 20

170 17100 0.9048 443.6 21

171 17200 0.6826 390.6 0

172 17300 0.6826 365 1

173 17400 0.6826 393.1 2

174 17500 0.6826 391.4 3

175 17600 0.6826 346.2 4

176 17700 0.6826 346.3 5

177 17800 0.6826 327.9 6

178 17900 0.6826 342 7

179 18000 0.6826 324.7 8

180 18100 0.6826 305.7 9

Best Mean Stall

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

181 18200 0.6826 284.4 10

182 18300 0.6826 268.1 11

183 18400 0.1702 207.1 0

184 18500 0.1702 180.1 0

185 18600 0.1504 180.5 0

186 18700 0.1504 173.4 1

187 18800 0.1504 146.5 2

188 18900 0.1504 147.1 3

189 19000 0.1504 117.8 4

190 19100 0.1504 143.9 5

191 19200 0.1504 120.8 6

192 19300 0.1504 125.9 7

193 19400 0.1504 122.5 8

194 19500 0.0529 113.8 0

195 19600 0.0529 96.44 0

196 19700 0.0529 64.53 1

197 19800 0.0529 46.27 2

198 19900 0.0529 35.07 3

199 20000 0.0529 25.07 4

200 20100 0.0529 13.01 5

Optimization terminated: maximum number of generations exceeded.

Switching to the hybrid optimization algorithm (FMINSEARCH).

Iteration Func-count min f(x) Procedure

0 1 0.0529041

1 11 0.0529041 initial simplex

2 12 0.0529041 reflect

3 13 0.0529041 reflect

4 15 0.0529041 contract inside

5 17 0.0529041 contract inside

6 19 0.0529041 contract inside

7 20 0.0529041 reflect

8 21 0.0529041 reflect

9 23 0.0529041 contract inside

10 25 0.0529041 contract outside

11 27 0.0529041 contract inside

12 28 0.0529041 reflect

13 30 0.0529041 contract inside

14 32 0.0529041 contract outside

15 34 0.0529041 contract inside

16 35 0.0529041 reflect

17 37 0.0529041 contract inside

18 39 0.0529041 contract inside

19 41 0.0529041 contract inside

20 43 0.0529041 contract inside

21 45 0.0529041 contract outside

22 47 0.0529041 contract inside

23 48 0.0529041 reflect

24 50 0.0529041 contract inside

25 52 0.0529041 contract inside

26 54 0.0529041 contract inside

27 56 0.0529041 contract inside

28 58 0.0529041 contract inside

29 60 0.0529041 contract inside

30 62 0.0529041 contract inside

31 64 0.0529041 contract inside

32 66 0.0529041 contract inside

33 68 0.0529041 contract inside

34 70 0.0529041 contract inside

35 72 0.0529041 contract inside

36 74 0.0529041 contract inside

37 76 0.0529041 contract outside

38 78 0.0529041 contract inside

39 80 0.0529041 contract inside

40 82 0.0529041 contract inside

41 84 0.0529041 contract inside

42 85 0.0529041 reflect

43 87 0.0529041 contract inside

44 89 0.0529041 contract inside

45 91 0.0529041 contract inside

46 93 0.0529041 contract inside

47 95 0.0529041 contract inside

48 97 0.0529041 contract inside

49 98 0.0529041 reflect

50 100 0.0529041 contract inside

51 102 0.0529041 contract inside

52 104 0.0529041 contract inside

53 106 0.0529041 contract inside

54 108 0.0529041 contract inside

55 110 0.0529041 contract inside

56 112 0.0529041 contract outside

57 114 0.0529041 contract inside

58 116 0.0529041 contract inside

59 117 0.0529041 reflect

60 119 0.0529041 contract inside

61 121 0.0529041 contract inside

62 122 0.0529041 reflect

63 124 0.0529041 contract inside

64 125 0.0529041 reflect

65 127 0.0529041 contract inside

66 129 0.0529041 contract inside

67 131 0.0529041 contract inside

68 133 0.0529041 contract inside

69 135 0.0529041 contract inside

70 137 0.0529041 contract inside

71 139 0.0529041 contract inside

72 141 0.0529041 contract inside

73 143 0.0529041 contract inside

74 145 0.0529041 contract inside

75 147 0.0529041 contract inside

76 149 0.0529041 contract inside

77 151 0.0529041 contract inside

78 153 0.0529041 contract inside

79 155 0.0529041 contract inside

80 157 0.0529041 contract inside

81 159 0.0529041 contract inside

82 161 0.0529041 contract inside

83 163 0.0529041 contract inside

84 165 0.0529041 contract inside

85 167 0.0529041 contract inside

86 169 0.0529041 contract inside

87 171 0.0529041 contract inside

88 173 0.0529041 contract inside

89 175 0.0529041 contract inside

90 177 0.0529041 contract inside

91 179 0.044634 contract inside

92 181 0.039944 contract inside

93 183 0.0362945 contract inside

94 185 0.0337823 contract inside

95 187 0.0294831 contract inside

96 188 0.0294831 reflect

97 190 0.0294831 contract inside

98 192 0.0294633 contract inside

99 194 0.0286467 contract inside

100 196 0.0269832 contract inside

101 198 0.0269832 contract inside

102 200 0.0269832 contract outside

103 201 0.0269832 reflect

104 203 0.0173236 contract inside

105 205 0.0145549 contract inside

106 207 0.012362 contract inside

107 208 0.012362 reflect

108 210 0.012362 contract inside

109 212 0.012362 contract inside

110 214 0.012362 contract inside

111 216 0.012362 contract inside

112 218 0.0120464 contract inside

113 219 0.0120464 reflect

114 221 0.0120464 contract inside

115 223 0.0119291 contract inside

116 225 0.0106462 contract inside

117 227 0.00746273 contract inside

118 228 0.00746273 reflect

119 230 0.00723601 contract inside

120 232 0.00723601 contract inside

121 234 0.00723601 contract inside

122 236 0.00658111 contract inside

123 238 0.00585473 contract inside

124 239 0.00585473 reflect

125 241 0.00547809 contract inside

126 242 0.00547809 reflect

127 244 0.00547809 contract inside

128 246 0.00518752 contract inside

129 247 0.00518752 reflect

130 249 0.00515771 contract inside

131 251 0.00501482 contract inside

132 253 0.00378772 contract inside

133 255 0.00348183 contract inside

134 257 0.00320505 contract inside

135 258 0.00320505 reflect

136 260 0.00320505 contract inside

137 262 0.0031354 contract inside

138 264 0.00312216 contract inside

139 266 0.0028649 contract inside

140 268 0.0028649 contract inside

141 270 0.00266996 contract inside

142 272 0.00266996 contract inside

143 274 0.0025791 contract inside

144 276 0.00209729 contract outside

145 278 0.00195855 contract inside

146 280 0.00195855 contract inside

147 282 0.00182818 contract inside

148 284 0.00172509 contract inside

149 285 0.00172509 reflect

150 287 0.00172509 contract inside

151 289 0.00172509 contract inside

152 291 0.00167253 contract inside

153 293 0.00167253 contract outside

154 295 0.0015594 contract inside

155 297 0.00146324 contract inside

156 299 0.00119039 contract inside

157 301 0.0011259 contract inside

158 302 0.0011259 reflect

159 303 0.0011259 reflect

160 304 0.0011259 reflect

161 306 0.0011259 contract inside

162 308 0.0011259 contract inside

163 309 0.0011259 reflect

164 311 0.0011259 contract inside

165 313 0.0011259 contract inside

166 315 0.00106941 contract inside

167 316 0.00106941 reflect

168 318 0.00106389 contract inside

169 320 0.00106389 contract inside

170 322 0.00103801 contract inside

171 324 0.000923361 contract inside

172 326 0.0009065 contract inside

173 327 0.0009065 reflect

174 329 0.0009065 contract inside

175 331 0.0009065 contract inside

176 333 0.000903952 contract inside

177 335 0.000903952 contract outside

178 337 0.000887028 contract inside

179 339 0.000887028 contract inside

180 341 0.000887028 contract inside

181 343 0.000887028 contract inside

182 345 0.000868233 contract inside

183 347 0.00083515 contract outside

184 349 0.000823546 contract inside

185 351 0.000820789 contract inside

186 353 0.000815896 contract inside

187 355 0.000815896 contract inside

188 357 0.000809864 contract inside

189 359 0.000803473 contract inside

190 361 0.000794399 contract inside

191 362 0.000794399 reflect

192 364 0.000794399 contract inside

193 366 0.000794399 contract inside

194 368 0.000792172 contract inside

195 370 0.000780913 contract inside

196 372 0.000772981 contract inside

197 373 0.000772981 reflect

198 375 0.000772981 contract inside

199 377 0.000772981 contract inside

200 379 0.000772981 contract inside

201 381 0.000770257 contract inside

202 383 0.000770257 contract inside

203 385 0.000767259 contract inside

204 387 0.00076611 contract inside

205 389 0.000762884 contract inside

206 391 0.000760306 contract inside

207 392 0.000760306 reflect

208 394 0.000755026 contract inside

209 396 0.000755026 contract inside

210 398 0.000753416 contract inside

211 400 0.000753416 contract inside

212 402 0.000752874 contract inside

213 404 0.000751314 contract inside

214 405 0.000751314 reflect

215 407 0.000750835 contract inside

216 409 0.000750835 contract inside

217 411 0.000750629 contract inside

218 413 0.00074952 contract inside

219 415 0.000747692 contract inside

220 417 0.00074524 contract inside

221 419 0.000744279 contract inside

222 420 0.000744279 reflect

223 422 0.000744279 contract inside

224 424 0.000744279 contract inside

225 426 0.000743665 contract inside

226 428 0.000743146 contract inside

227 429 0.000743146 reflect

228 431 0.000743146 contract inside

229 433 0.000743146 contract inside

230 435 0.000743032 contract inside

231 437 0.000743032 contract inside

232 439 0.000742171 contract inside

233 441 0.000741539 contract inside

234 443 0.00074098 contract inside

235 445 0.00074098 contract outside

236 447 0.000740842 contract inside

237 449 0.000740474 contract inside

238 451 0.000740474 contract inside

239 453 0.000740474 contract inside

240 455 0.000740118 contract inside

241 457 0.000739966 contract inside

242 459 0.000739966 contract outside

243 461 0.0007398 contract inside

244 463 0.000739574 contract inside

245 465 0.0007393 contract inside

246 467 0.000739153 contract inside

247 469 0.000739 contract inside

248 470 0.000739 reflect

249 472 0.000739 contract inside

250 474 0.000739 contract inside

251 476 0.000738872 contract inside

252 478 0.000738872 contract inside

253 480 0.000738796 contract inside

254 482 0.000738721 contract inside

255 484 0.000738721 contract outside

256 486 0.000738628 contract inside

257 488 0.000738497 contract inside

258 490 0.000738391 contract inside

259 492 0.000738319 contract inside

260 493 0.000738319 reflect

261 495 0.000738319 contract inside

262 497 0.000738317 contract inside

263 499 0.000738301 contract inside

264 501 0.000738272 contract inside

265 503 0.000738272 contract inside

266 505 0.000738246 contract inside

267 507 0.000738211 contract inside

268 509 0.000738144 contract inside

269 511 0.000738086 contract outside

270 513 0.000738076 contract inside

271 515 0.000738047 contract inside

272 517 0.000738012 contract inside

273 518 0.000738012 reflect

274 520 0.000738012 contract inside

275 522 0.000738012 contract inside

276 524 0.000738012 contract inside

277 526 0.000738007 contract inside

278 528 0.000738007 contract inside

279 530 0.000737992 contract inside

280 532 0.000737951 contract inside

281 534 0.000737916 contract inside

282 535 0.000737916 reflect

283 537 0.000737913 contract inside

284 539 0.000737903 contract inside

285 540 0.000737903 reflect

286 542 0.000737897 contract inside

287 543 0.000737897 reflect

288 545 0.000737897 contract inside

289 547 0.000737897 contract outside

290 549 0.000737897 contract inside

291 551 0.000737897 contract inside

292 553 0.000737897 contract inside

293 555 0.000737891 contract inside

294 557 0.000737867 contract inside

295 559 0.000737847 contract inside

296 560 0.000737847 reflect

297 562 0.000737847 contract inside

298 564 0.000737847 contract inside

299 566 0.000737844 contract inside

300 568 0.00073784 contract inside

301 569 0.00073784 reflect

302 571 0.00073784 contract inside

303 573 0.00073784 contract inside

304 575 0.00073784 contract inside

305 577 0.00073784 contract inside

306 579 0.000737839 contract inside

307 581 0.000737833 contract inside

308 583 0.000737828 contract inside

309 585 0.000737824 contract inside

310 587 0.000737822 contract inside

311 588 0.000737822 reflect

312 590 0.000737822 contract inside

313 592 0.000737822 contract inside

314 594 0.000737822 contract inside

315 596 0.000737822 contract inside

316 598 0.000737822 contract inside

317 600 0.000737821 contract inside

318 602 0.00073782 contract inside

319 604 0.000737819 contract outside

320 606 0.000737816 contract inside

321 608 0.000737814 contract inside

322 610 0.000737813 contract inside

323 612 0.000737812 contract inside

324 613 0.000737812 reflect

325 615 0.000737812 contract inside

326 617 0.000737812 contract inside

327 619 0.000737812 contract inside

328 621 0.000737812 contract inside

329 623 0.000737812 contract inside

330 625 0.000737812 contract inside

331 627 0.000737811 contract inside

332 629 0.00073781 contract inside

333 631 0.000737809 contract outside

334 633 0.000737809 contract inside

335 635 0.000737808 contract inside

336 636 0.000737808 reflect

337 638 0.000737808 contract inside

338 639 0.000737808 reflect

339 641 0.000737808 contract inside

340 643 0.000737808 contract inside

341 644 0.000737808 reflect

342 646 0.000737808 contract inside

343 648 0.000737808 contract inside

344 650 0.000737808 contract inside

345 652 0.000737808 contract inside

346 654 0.000737807 contract inside

347 656 0.000737806 contract inside

348 657 0.000737806 reflect

349 659 0.000737806 contract inside

350 661 0.000737806 contract inside

351 662 0.000737806 reflect

352 664 0.000737806 contract inside

353 665 0.000737806 reflect

354 667 0.000737806 contract inside

355 668 0.000737806 reflect

356 670 0.000737806 contract inside

357 672 0.000737806 contract inside

358 674 0.000737806 contract inside

359 676 0.000737806 contract inside

360 678 0.000737806 contract inside

361 680 0.000737806 contract inside

362 682 0.000737806 contract inside

363 683 0.000737806 reflect

364 685 0.000737806 contract inside

365 687 0.000737806 contract inside

366 689 0.000737805 contract inside

367 691 0.000737805 contract inside

368 692 0.000737805 reflect

369 694 0.000737805 contract inside

370 696 0.000737805 contract inside

371 698 0.000737805 contract inside

372 700 0.000737805 contract inside

373 702 0.000737805 contract inside

374 704 0.000737805 contract inside

375 706 0.000737805 contract outside

376 708 0.000737805 contract inside

377 710 0.000737805 contract inside

378 712 0.000737805 contract inside

379 714 0.000737805 contract inside

380 716 0.000737805 contract inside

381 718 0.000737805 contract inside

382 720 0.000737805 contract inside

383 722 0.000737805 contract inside

384 724 0.000737805 contract inside

385 725 0.000737805 reflect

386 727 0.000737805 contract inside

387 729 0.000737805 contract inside

388 731 0.000737805 contract inside

389 733 0.000737805 contract inside

390 734 0.000737805 reflect

391 736 0.000737805 contract inside

392 738 0.000737805 contract inside

393 740 0.000737805 contract inside

394 742 0.000737805 contract inside

395 744 0.000737805 contract inside

396 746 0.000737805 contract inside

397 748 0.000737805 contract inside

398 750 0.000737805 contract inside

399 751 0.000737805 reflect

400 753 0.000737805 contract inside

401 755 0.000737805 contract inside

402 756 0.000737805 reflect

403 758 0.000737805 contract inside

404 760 0.000737805 contract inside

405 762 0.000737805 contract inside

406 763 0.000737805 reflect

407 765 0.000737805 contract inside

408 767 0.000737805 contract inside

409 768 0.000737805 reflect

410 770 0.000737805 contract inside

411 772 0.000737805 contract inside

412 774 0.000737805 contract outside

413 776 0.000737805 contract inside

414 778 0.000737805 contract inside

415 780 0.000737805 contract inside

416 782 0.000737805 contract inside

417 783 0.000737805 reflect

418 785 0.000737805 contract inside

419 787 0.000737805 contract inside

420 789 0.000737805 contract inside

421 791 0.000737805 contract inside

422 793 0.000737805 contract inside

423 795 0.000737805 contract inside

424 797 0.000737805 contract inside

425 799 0.000737805 contract inside

426 800 0.000737805 reflect

427 802 0.000737805 contract inside

428 804 0.000737805 contract inside

429 806 0.000737805 contract inside

430 808 0.000737805 contract inside

431 810 0.000737805 contract inside

432 812 0.000737805 contract inside

433 813 0.000737805 reflect

434 814 0.000737805 reflect

435 816 0.000737805 contract inside

436 817 0.000737805 reflect

437 819 0.000737805 contract outside

438 821 0.000737805 contract inside

439 823 0.000737805 contract inside

440 825 0.000737805 contract inside

441 826 0.000737805 reflect

442 827 0.000737805 reflect

443 829 0.000737805 contract inside

444 831 0.000737805 contract inside

445 833 0.000737805 contract inside

446 835 0.000737805 contract inside

447 836 0.000737805 reflect

448 838 0.000737805 contract inside

449 839 0.000737805 reflect

450 840 0.000737805 reflect

451 841 0.000737805 reflect

452 843 0.000737805 contract outside

453 845 0.000737805 contract inside

454 847 0.000737805 contract inside

455 849 0.000737805 contract inside

456 851 0.000737805 contract inside

457 853 0.000737805 expand

458 854 0.000737805 reflect

459 866 0.000737805 shrink

460 867 0.000737805 reflect

461 868 0.000737805 reflect

462 870 0.000737805 contract outside

463 882 0.000737805 shrink

464 883 0.000737805 reflect

465 884 0.000737805 reflect

466 886 0.000737805 expand

467 887 0.000737805 reflect

468 889 0.000737805 contract inside

469 891 0.000737805 contract inside

470 903 0.000737805 shrink

471 904 0.000737805 reflect

472 905 0.000737805 reflect

473 906 0.000737805 reflect

474 907 0.000737805 reflect

475 909 0.000737805 expand

476 910 0.000737805 reflect

477 911 0.000737805 reflect

478 913 0.000737805 reflect

479 915 0.000737805 contract inside

480 927 0.000737805 shrink

481 928 0.000737805 reflect

482 930 0.000737805 contract inside

483 932 0.000737805 expand

484 934 0.000737805 contract inside

485 935 0.000737805 reflect

486 947 0.000737805 shrink

487 948 0.000737805 reflect

488 949 0.000737805 reflect

489 951 0.000737805 expand

490 952 0.000737805 reflect

491 953 0.000737805 reflect

492 954 0.000737805 reflect

493 955 0.000737805 reflect

494 957 0.000737805 contract inside

495 959 0.000737805 expand

496 960 0.000737805 reflect

497 961 0.000737805 reflect

498 962 0.000737805 reflect

499 964 0.000737805 reflect

500 966 0.000737805 contract inside

501 968 0.000737805 contract inside

502 969 0.000737805 reflect

503 971 0.000737805 reflect

504 973 0.000737805 contract inside

505 975 0.000737805 expand

506 977 0.000737805 contract inside

507 979 0.000737805 contract inside

508 980 0.000737805 reflect

509 981 0.000737805 reflect

510 982 0.000737805 reflect

511 984 0.000737805 contract inside

512 986 0.000737805 contract inside

513 987 0.000737805 reflect

514 988 0.000737805 reflect

515 990 0.000737805 contract inside

516 992 0.000737805 contract inside

517 994 0.000737805 contract inside

518 996 0.000737805 expand

519 1008 0.000737805 shrink

520 1009 0.000737805 reflect

521 1010 0.000737805 reflect

522 1011 0.000737805 reflect

523 1012 0.000737805 reflect

524 1014 0.000737805 contract outside

525 1016 0.000737805 contract inside

526 1018 0.000737805 contract inside

527 1019 0.000737805 reflect

528 1021 0.000737805 contract inside

529 1023 0.000737805 contract inside

530 1025 0.000737805 contract inside

531 1026 0.000737805 reflect

532 1027 0.000737805 reflect

533 1028 0.000737805 reflect

534 1030 0.000737805 contract inside

535 1032 0.000737805 contract inside

536 1033 0.000737805 reflect

537 1034 0.000737805 reflect

538 1035 0.000737805 reflect

539 1036 0.000737805 reflect

540 1038 0.000737805 reflect

541 1040 0.000737805 contract inside

542 1042 0.000737805 reflect

543 1044 0.000737805 expand

544 1045 0.000737805 reflect

545 1046 0.000737805 reflect

546 1048 0.000737805 contract inside

547 1049 0.000737805 reflect

548 1051 0.000737805 contract inside

549 1053 0.000737805 contract inside

550 1055 0.000737805 contract inside

551 1057 0.000737805 contract inside

552 1058 0.000737805 reflect

553 1060 0.000737805 contract inside

554 1062 0.000737805 contract inside

555 1064 0.000737805 contract inside

556 1066 0.000737805 contract inside

557 1067 0.000737805 reflect

558 1069 0.000737805 contract inside

559 1071 0.000737805 contract inside

560 1073 0.000737805 contract inside

561 1075 0.000737805 contract inside

562 1077 0.000737805 contract inside

563 1079 0.000737805 contract inside

564 1081 0.000737805 contract inside

565 1083 0.000737805 contract inside

566 1085 0.000737805 contract inside

567 1087 0.000737805 contract inside

568 1088 0.000737805 reflect

569 1090 0.000737805 contract inside

570 1092 0.000737805 contract inside

571 1094 0.000737805 reflect

572 1096 0.000737805 contract inside

573 1098 0.000737805 contract inside

574 1100 0.000737805 contract inside

575 1102 0.000737805 contract inside

576 1104 0.000737805 contract inside

577 1106 0.000737805 contract inside

578 1108 0.000737805 contract inside

579 1110 0.000737805 contract inside

580 1112 0.000737805 contract inside

581 1114 0.000737805 contract inside

582 1115 0.000737805 reflect

583 1117 0.000737805 contract inside

584 1119 0.000737805 contract inside

585 1121 0.000737805 contract inside

586 1123 0.000737805 contract inside

587 1125 0.000737805 contract inside

588 1127 0.000737805 contract inside

589 1128 0.000737805 reflect

590 1130 0.000737805 contract inside

591 1132 0.000737805 contract inside

592 1133 0.000737805 reflect

593 1134 0.000737805 reflect

594 1136 0.000737805 contract inside

595 1138 0.000737805 contract inside

596 1139 0.000737805 reflect

597 1141 0.000737805 contract inside

598 1143 0.000737805 contract inside

599 1145 0.000737805 contract inside

600 1146 0.000737805 reflect

601 1148 0.000737805 reflect

602 1149 0.000737805 reflect

603 1151 0.000737805 contract inside

604 1153 0.000737805 reflect

605 1155 0.000737805 contract inside

606 1156 0.000737805 reflect

607 1157 0.000737805 reflect

608 1158 0.000737805 reflect

609 1160 0.000737805 expand

610 1162 0.000737805 contract inside

611 1163 0.000737805 reflect

612 1164 0.000737805 reflect

613 1166 0.000737805 contract inside

614 1167 0.000737805 reflect

615 1168 0.000737805 reflect

616 1170 0.000737805 contract inside

617 1172 0.000737805 contract inside

618 1173 0.000737805 reflect

619 1175 0.000737805 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 =[15.7975,1.2896,0.5016,1.0875,4.7362,-1.562,15.5081,7.7486,9.9626,0.0151];**

**fval =7.3780e-004;**

exitflag =0

output =

problemtype: 'unconstrained'

rngstate: [1x1 struct]

generations: 200

funccount: 21275

message: [1x274 char]

population =

Columns 1 through 7

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0870 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.8023 1.2796 0.4974 1.0868 4.6937 -1.5628 15.4897

15.7989 1.2922 0.4614 1.0868 4.6817 -1.5673 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.4839

15.8023 1.2922 0.4643 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4867 1.0868 4.7191 -1.5571 15.4993

15.8138 1.2922 0.4974 1.0868 4.6802 -1.5628 15.4979

15.7989 1.2901 0.5591 1.0932 4.6802 -1.5628 15.5046

15.8023 1.2922 0.5018 1.0868 4.7306 -1.5628 15.5000

15.7903 1.2922 0.4974 1.0677 4.6858 -1.5628 15.5000

15.7825 1.3096 0.4947 1.0749 4.7085 -1.5628 15.4891

15.8023 1.2922 0.4974 1.0968 4.7306 -1.5412 15.5000

15.7989 1.2922 0.5013 1.0797 4.7349 -1.5531 15.5059

15.8049 1.3018 0.4974 1.0868 4.7306 -1.5459 15.5000

15.8096 1.2864 0.4974 1.0868 4.6339 -1.5628 15.5000

15.7980 1.2965 0.4825 1.0849 4.7154 -1.5647 15.4983

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5568 15.5322

15.7791 1.2922 0.4944 1.0868 4.6833 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.8049 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.6802 -1.5568 15.5000

15.8044 1.2922 0.4974 1.1090 4.6686 -1.3355 15.4900

15.7706 1.2922 0.4974 1.0118 4.6897 -1.5628 15.4689

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.7989 1.2902 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2936 0.5016 1.0868 4.6831 -1.5580 15.5000

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2405 0.4974 1.0868 4.6616 -1.5628 15.5000

15.7941 1.2892 0.5013 1.0868 4.6802 -1.5531 15.5000

15.8023 1.2922 0.4902 1.0868 4.7306 -1.5819 15.4982

15.7989 1.2922 0.4974 1.0868 4.7191 -1.5628 15.4993

15.8023 1.2964 0.4978 1.0896 4.6896 -1.5521 15.4933

15.7989 1.2848 0.4974 1.0868 4.6802 -1.5442 15.4658

15.7989 1.2649 0.4974 1.0868 4.7116 -1.5628 15.4916

15.7989 1.2883 0.4974 1.0958 4.7776 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5412 15.5000

15.8023 1.2922 0.4939 1.0932 4.7391 -1.5628 15.5046

15.8023 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7987 1.2922 0.4974 1.0868 4.6802 -1.5631 15.5068

15.7915 1.2944 0.4974 1.0847 4.7306 -1.5412 15.5000

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8095 1.2922 0.4974 1.0868 4.7306 -1.5696 15.5000

15.8049 1.2901 0.4915 1.0868 4.7306 -1.5571 15.5000

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.7967 1.2922 0.5008 1.0904 4.7306 -1.5509 15.4859

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5571 15.4993

15.7941 1.2892 0.5013 1.0868 4.7306 -1.5628 15.5000

15.8187 1.3120 0.4899 1.1012 4.6686 -1.5628 15.5055

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0926 4.7306 -1.5675 15.5000

15.7989 1.3026 0.5052 1.0934 4.6926 -1.5628 15.4627

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.3065 0.4946 1.1096 4.7306 -1.5628 15.5039

15.8023 1.2922 0.4974 1.0868 4.7191 -1.5628 15.5000

15.8023 1.2922 0.5140 1.0868 4.6926 -1.5628 15.5000

15.8008 1.2948 0.4972 1.0876 4.6738 -1.5628 15.5057

15.7989 1.2849 0.4964 1.0830 4.7305 -1.5628 15.4974

15.8023 1.2928 0.5023 1.0868 4.7228 -1.5628 15.5000

15.7989 1.2922 0.4867 1.0868 4.7306 -1.5580 15.4912

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8039 1.2979 0.5125 1.0808 4.7358 -1.5727 15.4766

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5188

15.7989 1.3188 0.4974 1.0868 4.7071 -1.5727 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2942 0.4974 1.0868 4.6754 -1.5568 15.4963

15.8023 1.2922 0.5052 1.0934 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4899 1.1012 4.7306 -1.5628 15.5044

15.8039 1.2922 0.5002 1.0868 4.6802 -1.5628 15.4966

15.8023 1.2922 0.4974 1.0868 4.6937 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8050 1.3041 0.4974 1.0868 4.6802 -1.5628 15.4839

15.7989 1.2902 0.4974 1.0868 4.7306 -1.5628 15.4938

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7619 1.2869 0.5018 1.0625 4.6802 -1.5628 15.5000

15.8023 1.2922 0.4990 1.1090 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4643 1.0868 4.7306 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5571 15.4993

15.7989 1.2923 0.4974 1.0868 4.6802 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.8023 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.6802 -1.5628 15.5000

15.7989 1.2922 0.4974 1.0868 4.7306 -1.5628 15.5000

Columns 8 through 10

7.7386 9.9437 0.0148

7.7386 9.9437 0.0148

7.7386 9.9437 -0.0081

7.7386 9.9437 -0.0000

7.7527 9.9437 -0.0000

7.7386 9.9437 -0.0000

7.7189 9.9437 -0.0000

7.7197 9.9437 0.0284

7.7197 9.9437 -0.0000

7.7386 9.9437 0.0148

7.7386 9.9437 -0.0000

7.7436 9.9437 0.0148

7.7197 9.9437 -0.0000

7.7391 9.9437 0.0218

7.7386 9.9437 0.0148

7.7197 9.9550 0.0148

7.7373 9.9444 -0.0000

7.6999 9.9597 -0.0000

7.7045 9.9453 0.0162

7.7197 9.9437 -0.0000

7.7150 9.9437 0.0148

7.7368 9.9399 0.0019

7.7197 9.9437 0.0148

7.7235 9.9415 -0.0000

7.7197 9.9437 -0.0000

7.7197 9.9417 -0.0000

7.7300 10.0029 0.0148

7.7336 9.9354 -0.0073

7.7211 9.9434 0.0148

7.7197 9.9437 -0.0000

7.7386 9.9417 -0.0000

7.7197 9.9437 -0.0000

7.7000 9.9437 0.0120

7.7386 9.9437 0.0148

7.7326 9.9437 0.0296

7.7197 9.9437 0.0160

7.7197 9.9437 0.0058

7.7197 9.9437 0.0148

7.7289 9.9538 0.0148

7.7197 9.9657 0.0148

7.7386 9.9437 0.0148

7.7197 9.9437 0.0140

7.7386 9.9437 -0.0000

7.7391 9.9437 0.0148

7.7386 9.9437 0.0148

7.7425 9.9437 0.0145

7.7386 9.9437 0.0148

7.7197 9.9437 0.0148

7.7197 9.9437 0.0140

7.7001 9.9364 0.0114

7.7386 9.9437 -0.0000

7.7386 9.9437 0.0148

7.7386 9.9437 -0.0000

7.7386 9.9597 0.0079

7.7386 9.9437 0.0148

7.7386 10.0050 0.0148

7.7197 9.9437 -0.0000

7.7386 9.9437 0.0033

7.7197 9.9437 0.0214

7.7386 9.9437 0.0148

7.7386 9.9437 0.0016

7.7197 9.9437 0.0148

7.7386 9.9437 0.0148

7.7214 9.9475 -0.0005

7.7303 9.9437 0.0138

7.7475 9.9441 -0.0022

7.7527 9.9437 0.0148

7.7197 9.9437 -0.0000

7.7386 9.9437 0.0148

7.7226 9.9494 -0.0029

7.7197 9.9437 -0.0000

7.7197 9.9437 -0.0000

7.7197 9.9437 -0.0000

7.7386 9.9437 0.0148

7.6881 9.9437 -0.0000

7.7197 9.9437 -0.0000

7.7191 10.0029 0.0148

7.7197 9.9437 0.0214

7.7386 10.0050 0.0009

7.7197 9.9437 -0.0000

7.7197 9.9437 -0.0000

7.7386 9.9437 0.0148

7.7197 9.9657 -0.0000

7.7386 9.9437 -0.0000

7.7386 9.9437 -0.0000

7.7197 9.9437 0.0148

7.7197 9.9437 -0.0000

7.7007 9.9285 -0.0026

7.7386 9.9568 0.0148

7.7386 9.9437 0.0148

7.7386 9.9437 0.0148

7.7386 9.9437 0.0148

7.7300 9.9437 0.0024

7.7386 9.9437 0.0148

7.7197 9.9437 -0.0000

7.7386 9.9437 0.0148

7.7386 9.9437 0.0148

7.7197 9.9437 -0.0000

7.7197 9.9437 -0.0000

7.7386 9.9437 0.0148

scores =

0.0529

0.0529

64.6732

8.0690

18.3916

11.2048

0.3460

23.4869

1.8768

4.7015

8.0690

2.9238

3.4632

32.3511

0.7183

8.7854

59.7302

4.7864

2.8541

34.2610

29.2350

20.8126

0.9442

3.2734

0.1504

1.3340

3.8764

41.3216

42.6422

5.4948

1.9122

0.1504

12.8114

0.9215

143.1305

19.7167

18.3257

9.0700

2.8317

29.1381

69.8134

22.8873

18.6493

4.9917

4.4287

2.1661

10.5905

7.9111

6.4096

14.5362

11.7047

0.0529

6.8019

9.0144

10.0454

46.3244

4.6238

1.6571

9.0648

0.0529

18.7301

8.0349

5.9005

11.0457

17.0652

30.1533

5.2198

0.1504

0.0529

39.4173

0.1504

0.1504

0.1504

1.0785

69.9095

5.4948

3.3645

21.5536

6.8908

0.2518

2.2177

0.0529

30.5071

5.3562

12.5787

11.3880

0.1504

19.5558

25.1346

4.7015

0.9215

0.4653

2.1038

0.0529

0.1504

0.0529

0.0529

0.1504

0.1504

0.9215

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= 47.7397hours

**x =[15.7975,1.2896,0.5016,1.0875,4.7362,-1.562,15.5081,7.7486,9.9626,0.0151];**

**fval =7.3780e-004;**

**t\_flight =2.6116e+003; V\_flight =0.5189; AR =3.2871; Re =661.6246;**

**Distance\_flight\_min0 =1.3551e+003; Distance\_flight\_min =7.3793e-004;**

**L =1.0000; delta =4.5937e-005; P\_asterisk =9.5728;**

**penaltyfun1 =0.0919; penaltyfun2 =0; penaltyfun5 =0; obj\_function =0.0926;**

**精确值**

**x =[1.5797463e+001,1.2895694e+0,5.0159467e-001,1.0875403e+0,4.7362130e+0, -1.5620049e+0,1.5508054e+001,7.7486129e+0,9.9626168e+0,1.5053229e-002];**

**t\_flight =2.6121e+003; V\_flight =0.5189; AR =3.2871; Re =661.6246;**

**Distance\_flight\_min0 =1.3554e+003; Distance\_flight\_min =7.3780e-004;**

**L =1.0000; delta =-4.7216e-008; P\_asterisk =9.5709;**

**penaltyfun1 =9.4432e-005; penaltyfun2 =0; penaltyfun5 =0; obj\_function =8.3224e-004;**