>> 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 18.55 4773 0

2 300 18.55 4610 0

3 400 18.55 4204 1

4 500 18.55 1.025e+004 0

5 600 18.55 3908 1

6 700 13.03 4773 0

7 800 13.03 2886 1

8 900 13.03 4179 2

9 1000 9.654 4207 0

10 1100 9.654 5502 0

11 1200 9.654 4200 1

12 1300 9.654 2789 0

13 1400 9.654 3341 1

14 1500 9.654 4277 2

15 1600 9.654 5468 3

16 1700 9.654 2649 4

17 1800 9.654 5523 5

18 1900 9.654 2483 6

19 2000 9.654 8571 7

20 2100 9.654 2856 8

21 2200 9.654 2618 9

22 2300 9.654 6311 10

23 2400 9.654 9696 11

24 2500 9.654 5618 12

25 2600 9.654 3601 13

26 2700 9.654 3.218e+004 14

27 2800 9.654 2558 15

28 2900 9.654 2630 16

29 3000 9.654 3504 17

30 3100 9.629 2132 0

31 3200 9.629 2228 1

32 3300 9.584 1766 0

Optimization terminated: stop requested from plot function.

Switching to the hybrid optimization algorithm (FMINSEARCH).

Iteration Func-count min f(x) Procedure

0 1 9.58427

1 7 9.58427 initial simplex

2 9 9.58427 contract inside

3 11 9.58427 contract inside

4 13 9.58427 contract inside

5 14 9.58427 reflect

6 16 9.58427 contract outside

7 18 9.58427 contract inside

8 20 9.58427 contract inside

9 21 9.58427 reflect

10 23 9.58427 contract inside

11 25 9.58427 contract inside

12 27 9.58427 contract inside

13 29 9.58427 contract inside

14 31 9.58427 contract inside

15 33 9.58427 contract inside

16 35 9.58427 contract inside

17 37 9.58427 contract inside

18 39 9.58427 contract inside

19 41 9.58427 contract inside

20 43 9.58427 contract inside

21 45 9.58427 contract inside

22 47 9.58427 contract inside

23 49 9.58427 contract inside

24 51 9.58427 contract inside

25 53 9.58427 contract inside

26 55 9.58427 contract inside

27 56 9.58427 reflect

28 58 9.58427 contract inside

29 60 9.58427 contract inside

30 61 9.58427 reflect

31 63 9.58427 contract inside

32 65 9.58427 contract inside

33 67 9.58427 contract inside

34 69 9.58427 contract inside

35 71 9.58427 contract inside

36 73 9.58427 contract inside

37 75 9.58427 contract inside

38 77 9.58427 contract inside

39 79 9.58427 contract inside

40 81 9.58427 contract inside

41 83 9.56208 contract inside

42 85 9.5544 contract inside

43 87 9.51241 contract inside

44 89 9.49383 contract inside

45 91 9.49383 contract inside

46 93 9.48769 contract inside

47 95 9.44254 contract inside

48 97 9.44254 contract inside

49 99 9.44254 contract inside

50 101 9.44254 contract inside

51 103 9.44254 contract inside

52 105 9.44254 contract inside

53 107 9.44254 contract inside

54 109 9.44254 contract inside

55 111 9.43965 contract inside

56 113 9.43454 contract inside

57 115 9.42977 contract inside

58 117 9.42898 contract inside

59 119 9.42713 contract inside

60 121 9.42713 contract inside

61 123 9.42017 contract inside

62 125 9.42017 contract inside

63 127 9.42017 contract inside

64 129 9.42017 contract inside

65 131 9.42017 contract inside

66 133 9.42006 contract inside

67 135 9.41994 contract inside

68 137 9.41834 contract inside

69 139 9.41834 contract inside

70 141 9.41706 contract inside

71 143 9.41692 contract inside

72 144 9.41692 reflect

73 146 9.4161 contract inside

74 148 9.4161 contract outside

75 149 9.4161 reflect

76 150 9.4161 reflect

77 152 9.41574 contract inside

78 154 9.41531 contract inside

79 155 9.41531 reflect

80 157 9.41527 contract inside

81 159 9.41527 contract inside

82 161 9.41511 contract inside

83 163 9.41511 contract inside

84 165 9.41511 contract inside

85 167 9.41488 contract inside

86 169 9.41488 contract inside

87 171 9.41481 contract inside

88 172 9.41481 reflect

89 174 9.41458 contract inside

90 176 9.41458 contract inside

91 178 9.41451 contract inside

92 180 9.41451 contract inside

93 182 9.41451 contract inside

94 184 9.41444 contract inside

95 186 9.41432 reflect

96 188 9.41432 contract inside

97 190 9.41431 contract inside

98 191 9.41431 reflect

99 192 9.41431 reflect

100 194 9.41424 contract inside

101 196 9.41377 expand

102 197 9.41377 reflect

103 198 9.41377 reflect

104 199 9.41377 reflect

105 200 9.41377 reflect

106 202 9.41377 contract inside

107 203 9.41377 reflect

108 204 9.41377 reflect

109 206 9.41377 contract inside

110 208 9.41377 reflect

111 209 9.41377 reflect

112 210 9.41377 reflect

113 211 9.41377 reflect

114 213 9.41371 reflect

115 215 9.41361 reflect

116 217 9.41361 contract outside

117 218 9.41361 reflect

118 219 9.41361 reflect

119 220 9.41361 reflect

120 222 9.41331 reflect

121 224 9.41331 contract inside

122 226 9.41331 contract inside

123 228 9.41331 contract inside

124 230 9.41331 reflect

125 232 9.41331 contract outside

126 234 9.41312 expand

127 235 9.41312 reflect

128 237 9.41312 contract outside

129 239 9.41312 contract inside

130 241 9.41305 expand

131 242 9.41305 reflect

132 243 9.41305 reflect

133 244 9.41305 reflect

134 246 9.41305 contract inside

135 247 9.41305 reflect

136 248 9.41305 reflect

137 250 9.41293 expand

138 251 9.41293 reflect

139 252 9.41293 reflect

140 253 9.41293 reflect

141 255 9.4129 contract inside

142 257 9.41273 expand

143 258 9.41273 reflect

144 259 9.41273 reflect

145 260 9.41273 reflect

146 262 9.41261 expand

147 264 9.41242 expand

148 266 9.41242 contract inside

149 267 9.41242 reflect

150 268 9.41242 reflect

151 269 9.41242 reflect

152 270 9.41242 reflect

153 272 9.41213 expand

154 274 9.41213 contract inside

155 275 9.41213 reflect

156 276 9.41213 reflect

157 277 9.41213 reflect

158 278 9.41213 reflect

159 279 9.41213 reflect

160 280 9.41213 reflect

161 282 9.41206 contract inside

162 284 9.41186 expand

163 285 9.41186 reflect

164 286 9.41186 reflect

165 287 9.41186 reflect

166 288 9.41186 reflect

167 289 9.41186 reflect

168 291 9.41158 expand

169 292 9.41158 reflect

170 293 9.41158 reflect

171 295 9.41156 reflect

172 297 9.41156 contract inside

173 299 9.41134 expand

174 300 9.41134 reflect

175 302 9.41134 contract inside

176 304 9.41114 expand

177 305 9.41114 reflect

178 306 9.41114 reflect

179 307 9.41114 reflect

180 309 9.4108 expand

181 310 9.4108 reflect

182 312 9.4108 contract inside

183 313 9.4108 reflect

184 315 9.41057 expand

185 316 9.41057 reflect

186 317 9.41057 reflect

187 319 9.41043 reflect

188 320 9.41043 reflect

189 322 9.40998 expand

190 324 9.40998 contract inside

191 325 9.40998 reflect

192 326 9.40998 reflect

193 328 9.40967 expand

194 329 9.40967 reflect

195 331 9.40922 expand

196 332 9.40922 reflect

197 333 9.40922 reflect

198 334 9.40922 reflect

199 336 9.40922 contract inside

200 337 9.40922 reflect

201 339 9.40886 expand

202 340 9.40886 reflect

203 342 9.40871 reflect

204 343 9.40871 reflect

205 345 9.40797 expand

206 347 9.40762 expand

207 348 9.40762 reflect

208 349 9.40762 reflect

209 350 9.40762 reflect

210 352 9.40648 expand

211 354 9.40648 contract inside

212 355 9.40648 reflect

213 356 9.40648 reflect

214 358 9.40648 contract inside

215 359 9.40648 reflect

216 361 9.40445 expand

217 363 9.40445 contract outside

218 365 9.40445 contract outside

219 366 9.40445 reflect

220 367 9.40445 reflect

221 368 9.40445 reflect

222 369 9.40445 reflect

223 371 9.40383 reflect

224 372 9.40383 reflect

225 373 9.40383 reflect

226 375 9.40216 expand

227 376 9.40216 reflect

228 377 9.40216 reflect

229 379 9.4003 expand

230 380 9.4003 reflect

231 381 9.4003 reflect

232 382 9.4003 reflect

233 383 9.4003 reflect

234 384 9.4003 reflect

235 386 9.39984 reflect

236 387 9.39984 reflect

237 389 9.39812 expand

238 390 9.39812 reflect

239 392 9.39812 contract inside

240 394 9.39676 expand

241 395 9.39676 reflect

242 396 9.39676 reflect

243 398 9.39635 expand

244 400 9.39206 expand

245 401 9.39206 reflect

246 402 9.39206 reflect

247 404 9.38862 expand

248 405 9.38862 reflect

249 406 9.38862 reflect

250 408 9.38841 reflect

251 410 9.38841 contract outside

252 412 9.38815 reflect

253 414 9.38815 contract inside

254 416 9.38546 reflect

255 417 9.38546 reflect

256 419 9.3839 expand

257 421 9.3839 contract inside

258 422 9.3839 reflect

259 424 9.382 expand

260 426 9.382 contract inside

261 428 9.37889 expand

262 430 9.3735 expand

263 431 9.3735 reflect

264 432 9.3735 reflect

265 434 9.36398 expand

266 435 9.36398 reflect

267 436 9.36398 reflect

268 437 9.36398 reflect

269 438 9.36398 reflect

270 439 9.36398 reflect

271 441 9.35334 expand

272 443 9.35334 contract outside

273 444 9.35334 reflect

274 445 9.35334 reflect

275 446 9.35334 reflect

276 448 9.34753 expand

277 449 9.34753 reflect

278 450 9.34753 reflect

279 451 9.34753 reflect

280 452 9.34753 reflect

281 454 9.34689 reflect

282 456 9.33026 expand

283 457 9.33026 reflect

284 459 9.33026 contract inside

285 461 9.32699 expand

286 462 9.32699 reflect

287 464 9.3141 expand

288 465 9.3141 reflect

289 466 9.3141 reflect

290 468 9.30607 reflect

291 470 9.30607 contract inside

292 471 9.30607 reflect

293 472 9.30607 reflect

294 473 9.30607 reflect

295 475 9.2949 expand

296 477 9.27919 expand

297 479 9.27919 contract inside

298 480 9.27919 reflect

299 481 9.27919 reflect

300 483 9.26846 expand

301 484 9.26846 reflect

302 486 9.26722 reflect

303 487 9.26722 reflect

304 489 9.24476 expand

305 491 9.24476 contract inside

306 493 9.22489 expand

307 494 9.22489 reflect

308 495 9.22489 reflect

309 497 9.19224 expand

310 498 9.19224 reflect

311 499 9.19224 reflect

312 500 9.19224 reflect

313 502 9.18483 reflect

314 504 9.18233 reflect

315 506 9.13171 expand

316 508 9.13171 contract inside

317 509 9.13171 reflect

318 510 9.13171 reflect

319 511 9.13171 reflect

320 513 9.13171 contract inside

321 515 9.13171 contract inside

322 516 9.13171 reflect

323 517 9.13171 reflect

324 519 9.13171 contract inside

325 521 9.13171 contract inside

326 523 9.13171 contract inside

327 525 9.13171 contract inside

328 527 9.13171 contract inside

329 529 9.13171 contract inside

330 531 9.13171 contract inside

331 533 9.1209 reflect

332 535 9.1209 contract inside

333 537 9.1209 contract inside

334 538 9.1209 reflect

335 540 9.1209 contract inside

336 542 9.1209 contract inside

337 544 9.1209 contract inside

338 546 9.1209 contract inside

339 548 9.1209 contract inside

340 550 9.11964 reflect

341 552 9.11964 contract outside

342 554 9.11964 contract inside

343 555 9.11964 reflect

344 557 9.11964 contract inside

345 558 9.11964 reflect

346 560 9.11718 reflect

347 562 9.11718 contract inside

348 564 9.11718 contract inside

349 565 9.11718 reflect

350 567 9.11718 contract inside

351 569 9.11718 contract inside

352 571 9.11718 contract inside

353 572 9.11718 reflect

354 574 9.11718 contract inside

355 575 9.11718 reflect

356 577 9.11718 contract inside

357 579 9.11718 contract inside

358 580 9.11718 reflect

359 582 9.11718 contract inside

360 583 9.11718 reflect

361 584 9.11718 reflect

362 586 9.11604 reflect

363 588 9.11604 contract inside

364 589 9.11604 reflect

365 591 9.11604 contract inside

366 593 9.11597 reflect

367 594 9.11597 reflect

368 596 9.11597 contract inside

369 598 9.11597 contract inside

370 599 9.11597 reflect

371 601 9.11565 reflect

372 602 9.11565 reflect

373 604 9.11565 contract inside

374 606 9.11565 contract inside

375 608 9.11565 contract inside

376 610 9.11565 contract inside

377 612 9.11565 contract inside

378 614 9.11564 reflect

379 616 9.11564 contract inside

380 618 9.11564 contract inside

381 619 9.11564 reflect

382 621 9.11554 reflect

383 623 9.11554 contract inside

384 625 9.11554 contract inside

385 626 9.11554 reflect

386 628 9.11543 reflect

387 630 9.11543 contract inside

388 632 9.11543 contract inside

389 634 9.11543 contract inside

390 636 9.11543 contract inside

391 638 9.11543 contract outside

392 640 9.1154 reflect

393 641 9.1154 reflect

394 643 9.1154 contract inside

395 645 9.1154 contract inside

396 647 9.1154 contract inside

397 649 9.11536 expand

398 651 9.11536 contract inside

399 653 9.11536 contract inside

400 655 9.11536 contract inside

401 656 9.11536 reflect

402 658 9.11536 contract inside

403 660 9.11536 contract inside

404 661 9.11536 reflect

405 663 9.11536 contract inside

406 665 9.11536 contract inside

407 667 9.11536 contract inside

408 669 9.11536 contract inside

409 671 9.11533 reflect

410 673 9.11533 contract inside

411 675 9.11533 contract inside

412 677 9.11533 contract inside

413 679 9.11533 contract outside

414 681 9.11533 contract inside

415 683 9.11533 contract inside

416 684 9.11533 reflect

417 686 9.11533 contract inside

418 687 9.11533 reflect

419 689 9.11533 contract inside

420 690 9.11533 reflect

421 692 9.11533 contract inside

422 694 9.11533 contract inside

423 695 9.11533 reflect

424 697 9.11533 contract outside

425 699 9.11533 reflect

426 701 9.11533 contract inside

427 703 9.11533 contract inside

428 704 9.11533 reflect

429 706 9.11533 contract outside

430 708 9.11533 contract inside

431 710 9.11533 contract inside

432 711 9.11533 reflect

433 713 9.11533 contract inside

434 715 9.11533 contract inside

435 717 9.11533 contract inside

436 719 9.11533 contract inside

437 721 9.11533 contract inside

438 722 9.11533 reflect

439 724 9.11533 contract inside

440 726 9.11533 contract inside

441 727 9.11533 reflect

442 728 9.11533 reflect

443 730 9.11533 contract inside

444 732 9.11533 contract inside

445 734 9.11533 contract inside

446 736 9.11533 contract inside

447 737 9.11533 reflect

448 738 9.11533 reflect

449 740 9.11533 contract inside

450 742 9.11533 contract inside

451 744 9.11533 contract inside

452 746 9.11533 contract outside

453 748 9.11533 contract inside

454 750 9.11533 contract inside

455 752 9.11533 contract inside

456 753 9.11533 reflect

457 755 9.11533 contract outside

458 756 9.11533 reflect

459 758 9.11533 expand

460 760 9.11533 contract inside

461 761 9.11533 reflect

462 763 9.11533 contract inside

463 764 9.11533 reflect

464 766 9.11533 contract inside

465 768 9.11533 contract inside

466 770 9.11533 contract inside

467 772 9.11533 contract outside

468 774 9.11533 contract inside

469 776 9.11533 contract inside

470 778 9.11533 contract inside

471 779 9.11533 reflect

472 780 9.11533 reflect

473 781 9.11533 reflect

474 783 9.11533 contract inside

475 784 9.11533 reflect

476 786 9.11533 contract inside

477 788 9.11533 contract inside

478 790 9.11533 contract inside

479 791 9.11533 reflect

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481 794 9.11533 reflect

482 796 9.11533 contract inside

483 798 9.11533 contract inside

484 800 9.11533 contract inside

485 802 9.11533 contract outside

486 804 9.11533 contract inside

487 806 9.11533 contract inside

488 808 9.11533 contract inside

489 810 9.11533 contract inside

490 811 9.11533 reflect

491 813 9.11533 contract inside

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494 818 9.11533 contract inside

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499 824 9.11533 reflect

500 826 9.11533 contract inside

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502 830 9.11533 contract inside

503 832 9.11533 contract inside

504 833 9.11533 reflect

505 834 9.11533 reflect

506 836 9.11533 contract inside

507 838 9.11533 contract inside

508 840 9.11533 contract inside

509 841 9.11533 reflect

510 843 9.11533 reflect

511 844 9.11533 reflect

512 846 9.11533 contract inside

513 848 9.11533 contract inside

514 850 9.11533 contract inside

515 852 9.11533 contract inside

516 854 9.11533 contract inside

517 856 9.11533 contract outside

518 858 9.11533 contract inside

519 860 9.11533 contract inside

520 862 9.11533 contract inside

521 863 9.11533 reflect

522 864 9.11533 reflect

523 866 9.11533 contract inside

524 868 9.11533 contract inside

525 870 9.11533 contract outside

526 872 9.11533 contract inside

527 873 9.11533 reflect

528 875 9.11533 contract inside

529 877 9.11533 contract inside

530 879 9.11533 reflect

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533 884 9.11533 contract inside

534 886 9.11533 contract inside

535 887 9.11533 reflect

536 888 9.11533 reflect

537 890 9.11533 contract inside

538 892 9.11533 contract outside

539 894 9.11533 reflect

540 896 9.11533 contract inside

541 897 9.11533 reflect

542 899 9.11533 contract inside

543 900 9.11533 reflect

544 902 9.11533 contract inside

545 904 9.11533 contract inside

546 906 9.11533 reflect

547 908 9.11533 contract inside

548 910 9.11533 contract inside

549 912 9.11533 contract inside

550 913 9.11533 reflect

551 914 9.11533 reflect

552 916 9.11533 contract inside

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558 926 9.11533 reflect

559 928 9.11533 contract inside

560 929 9.11533 reflect

561 930 9.11533 reflect

562 932 9.11533 contract inside

563 934 9.11533 contract inside

564 936 9.11533 reflect

565 937 9.11533 reflect

566 939 9.11533 contract inside

567 940 9.11533 reflect

568 942 9.11533 reflect

569 944 9.11533 contract inside

570 945 9.11533 reflect

571 946 9.11533 reflect

572 948 9.11533 reflect

573 950 9.11533 contract inside

574 952 9.11533 contract inside

575 954 9.11533 contract inside

576 955 9.11533 reflect

577 956 9.11533 reflect

578 957 9.11533 reflect

579 959 9.11533 reflect

580 961 9.11533 contract inside

581 963 9.11533 contract inside

582 965 9.11533 contract inside

583 966 9.11533 reflect

584 968 9.11533 contract inside

585 969 9.11533 reflect

586 971 9.11533 contract inside

587 972 9.11533 reflect

588 974 9.11533 contract inside

589 975 9.11533 reflect

590 977 9.11533 reflect

591 979 9.11533 expand

592 981 9.11533 reflect

593 983 9.11533 expand

594 984 9.11533 reflect

595 986 9.11533 reflect

596 987 9.11533 reflect

597 989 9.11533 contract inside

598 991 9.11533 contract inside

599 993 9.11533 contract inside

600 995 9.11533 expand

601 997 9.11533 contract inside

602 998 9.11533 reflect

603 1000 9.11533 reflect

604 1001 9.11533 reflect

605 1003 9.11533 reflect

606 1004 9.11533 reflect

607 1006 9.11533 expand

608 1007 9.11533 reflect

609 1009 9.11533 contract inside

610 1011 9.11533 expand

611 1012 9.11533 reflect

612 1013 9.11533 reflect

613 1015 9.11533 expand

614 1016 9.11533 reflect

615 1018 9.11533 expand

616 1019 9.11533 reflect

617 1020 9.11533 reflect

618 1022 9.11533 expand

619 1024 9.11533 expand

620 1025 9.11533 reflect

621 1026 9.11533 reflect

622 1028 9.11533 expand

623 1029 9.11533 reflect

624 1031 9.11533 expand

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626 1034 9.11533 expand

627 1035 9.11533 reflect

628 1037 9.11533 expand

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630 1040 9.11533 expand

631 1041 9.11533 reflect

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634 1046 9.11533 expand

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636 1049 9.11533 expand

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638 1052 9.11533 expand

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646 1064 9.11533 expand

647 1065 9.11533 reflect

648 1067 9.11533 expand

649 1068 9.11533 reflect

650 1070 9.11533 expand

651 1071 9.11533 reflect

652 1073 9.11533 expand

653 1074 9.11533 reflect

654 1076 9.11533 expand

655 1077 9.11533 reflect

656 1079 9.11533 expand

657 1080 9.11533 reflect

658 1082 9.11533 expand

659 1083 9.11533 reflect

660 1085 9.11533 expand

661 1086 9.11533 reflect

662 1088 9.11533 expand

663 1089 9.11533 reflect

664 1091 9.11533 expand

665 1092 9.11533 reflect

666 1094 9.11532 expand

667 1095 9.11532 reflect

668 1097 9.11532 expand

669 1098 9.11532 reflect

670 1100 9.11532 expand

671 1101 9.11532 reflect

672 1103 9.11532 expand

673 1104 9.11532 reflect

674 1106 9.11532 expand

675 1107 9.11532 reflect

676 1109 9.11532 expand

677 1110 9.11532 reflect

678 1112 9.11532 expand

679 1113 9.11532 reflect

680 1115 9.11531 expand

681 1116 9.11531 reflect

682 1118 9.11531 expand

683 1119 9.11531 reflect

684 1121 9.1153 expand

685 1122 9.1153 reflect

686 1124 9.11529 expand

687 1125 9.11529 reflect

688 1127 9.11528 expand

689 1128 9.11528 reflect

690 1130 9.11526 expand

691 1131 9.11526 reflect

692 1133 9.11524 expand

693 1134 9.11524 reflect

694 1136 9.1152 expand

695 1137 9.1152 reflect

696 1139 9.11516 expand

697 1140 9.11516 reflect

698 1142 9.1151 expand

699 1143 9.1151 reflect

700 1145 9.11503 expand

701 1146 9.11503 reflect

702 1148 9.11496 expand

703 1149 9.11496 reflect

704 1151 9.11488 expand

705 1152 9.11488 reflect

706 1154 9.11484 expand

707 1155 9.11484 reflect

708 1157 9.11484 reflect

709 1158 9.11484 reflect

710 1159 9.11484 reflect

711 1161 9.11484 contract outside

712 1163 9.11484 contract inside

713 1165 9.11484 contract outside

714 1167 9.11484 contract inside

715 1168 9.11484 reflect

716 1170 9.11484 contract inside

717 1171 9.11484 reflect

718 1173 9.11484 contract inside

719 1175 9.11484 contract inside

720 1177 9.11484 contract inside

721 1179 9.11484 contract inside

722 1180 9.11484 reflect

723 1182 9.11484 contract inside

724 1184 9.11484 contract inside

725 1186 9.11484 contract inside

726 1188 9.11484 contract inside

727 1190 9.11484 contract inside

728 1191 9.11484 reflect

729 1193 9.11484 contract inside

730 1195 9.11484 contract inside

731 1197 9.11484 contract inside

732 1198 9.11484 reflect

733 1200 9.11484 contract inside

734 1202 9.11484 contract inside

735 1204 9.11484 contract inside

736 1206 9.11484 contract inside

737 1208 9.11484 contract inside

738 1209 9.11484 reflect

739 1210 9.11484 reflect

740 1212 9.11484 contract inside

741 1213 9.11484 reflect

742 1215 9.11484 contract inside

743 1217 9.11484 contract inside

744 1219 9.11484 contract inside

745 1221 9.11484 contract inside

746 1223 9.11484 contract inside

747 1224 9.11484 reflect

748 1226 9.11484 contract inside

749 1227 9.11484 reflect

750 1229 9.11484 contract inside

751 1231 9.11484 contract inside

752 1233 9.11484 contract inside

753 1235 9.11484 contract inside

754 1237 9.11484 contract inside

755 1239 9.11484 reflect

756 1240 9.11484 reflect

757 1241 9.11484 reflect

758 1242 9.11484 reflect

759 1244 9.11484 contract inside

760 1246 9.11484 expand

761 1248 9.11484 contract inside

762 1249 9.11484 reflect

763 1250 9.11484 reflect

764 1251 9.11484 reflect

765 1252 9.11484 reflect

766 1254 9.11484 expand

767 1255 9.11484 reflect

768 1256 9.11484 reflect

769 1258 9.11484 expand

770 1260 9.11484 contract inside

771 1261 9.11484 reflect

772 1262 9.11484 reflect

773 1264 9.11484 expand

774 1265 9.11484 reflect

775 1267 9.11484 expand

776 1268 9.11484 reflect

777 1269 9.11484 reflect

778 1271 9.11484 expand

779 1273 9.11484 expand

780 1274 9.11484 reflect

781 1275 9.11484 reflect

782 1276 9.11484 reflect

783 1278 9.11484 expand

784 1279 9.11484 reflect

785 1281 9.11484 expand

786 1283 9.11484 expand

787 1284 9.11484 reflect

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789 1287 9.11484 reflect

790 1289 9.11484 expand

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795 1296 9.11484 reflect

796 1298 9.11484 expand

797 1299 9.11484 reflect

798 1301 9.11484 expand

799 1302 9.11484 reflect

800 1303 9.11484 reflect

801 1305 9.11483 expand

802 1307 9.11483 expand

803 1308 9.11483 reflect

804 1309 9.11483 reflect

805 1311 9.11483 expand

806 1313 9.11483 expand

807 1314 9.11483 reflect

808 1316 9.11483 expand

809 1317 9.11483 reflect

810 1319 9.11483 expand

811 1320 9.11483 reflect

812 1322 9.11483 expand

813 1323 9.11483 reflect

814 1325 9.11483 expand

815 1326 9.11483 reflect

816 1328 9.11483 expand

817 1330 9.11483 expand

818 1331 9.11483 reflect

819 1332 9.11483 reflect

820 1334 9.11483 expand

821 1336 9.11483 expand

822 1338 9.11482 expand

823 1340 9.11482 expand

824 1341 9.11482 reflect

825 1342 9.11482 reflect

826 1344 9.11482 contract outside

827 1345 9.11482 reflect

828 1346 9.11482 reflect

829 1348 9.11482 expand

830 1349 9.11482 reflect

831 1351 9.11482 expand

832 1353 9.11481 expand

833 1354 9.11481 reflect

834 1356 9.11481 expand

835 1358 9.1148 expand

836 1359 9.1148 reflect

837 1361 9.11479 expand

838 1363 9.11478 expand

839 1364 9.11478 reflect

840 1366 9.11475 expand

841 1367 9.11475 reflect

842 1368 9.11475 reflect

843 1370 9.11471 expand

844 1371 9.11471 reflect

845 1372 9.11471 reflect

846 1374 9.11466 expand

847 1375 9.11466 reflect

848 1377 9.11461 expand

849 1379 9.11453 expand

850 1380 9.11453 reflect

851 1381 9.11453 reflect

852 1383 9.11436 expand

853 1384 9.11436 reflect

854 1386 9.11435 reflect

855 1388 9.11426 expand

856 1390 9.11407 expand

857 1391 9.11407 reflect

858 1393 9.11402 reflect

859 1394 9.11402 reflect

860 1396 9.11398 expand

861 1398 9.11366 expand

862 1400 9.11366 contract inside

863 1401 9.11366 reflect

864 1403 9.11353 expand

865 1404 9.11353 reflect

866 1406 9.11326 expand

867 1407 9.11326 reflect

868 1408 9.11326 reflect

869 1409 9.11326 reflect

870 1410 9.11326 reflect

871 1412 9.11326 contract inside

872 1413 9.11326 reflect

873 1415 9.11312 expand

874 1416 9.11312 reflect

875 1418 9.11305 reflect

876 1419 9.11305 reflect

877 1420 9.11305 reflect

878 1422 9.11299 contract inside

879 1424 9.1129 contract inside

880 1426 9.11266 expand

881 1427 9.11266 reflect

882 1428 9.11266 reflect

883 1429 9.11266 reflect

884 1430 9.11266 reflect

885 1431 9.11266 reflect

886 1433 9.11266 contract outside

887 1434 9.11266 reflect

888 1436 9.11249 reflect

889 1437 9.11249 reflect

890 1439 9.11227 expand

891 1441 9.1122 reflect

892 1443 9.1122 contract inside

893 1445 9.1122 contract inside

894 1446 9.1122 reflect

895 1447 9.1122 reflect

896 1448 9.1122 reflect

897 1449 9.1122 reflect

898 1450 9.1122 reflect

899 1452 9.11211 reflect

900 1453 9.11211 reflect

901 1454 9.11211 reflect

902 1456 9.11211 contract inside

903 1457 9.11211 reflect

904 1459 9.11196 contract inside

905 1461 9.11189 reflect

906 1463 9.11189 contract inside

907 1465 9.11189 contract inside

908 1466 9.11189 reflect

909 1468 9.11169 expand

910 1469 9.11169 reflect

911 1470 9.11169 reflect

912 1472 9.11152 expand

913 1474 9.11152 contract inside

914 1476 9.11152 contract inside

915 1477 9.11152 reflect

916 1478 9.11152 reflect

917 1480 9.11142 expand

918 1481 9.11142 reflect

919 1482 9.11142 reflect

920 1484 9.11138 reflect

921 1485 9.11138 reflect

922 1487 9.11103 expand

923 1488 9.11103 reflect

924 1490 9.11103 contract outside

925 1492 9.11103 contract inside

926 1493 9.11103 reflect

927 1495 9.1108 expand

928 1496 9.1108 reflect

929 1498 9.1108 contract inside

930 1500 9.11077 reflect

931 1501 9.11077 reflect

932 1503 9.11076 reflect

933 1505 9.11045 expand

934 1506 9.11045 reflect

935 1507 9.11045 reflect

936 1508 9.11045 reflect

937 1509 9.11045 reflect

938 1510 9.11045 reflect

939 1512 9.11044 reflect

940 1513 9.11044 reflect

941 1515 9.11042 reflect

942 1517 9.11042 contract outside

943 1519 9.10996 expand

944 1521 9.10996 contract outside

945 1523 9.10996 contract inside

946 1524 9.10996 reflect

947 1525 9.10996 reflect

948 1526 9.10996 reflect

949 1527 9.10996 reflect

950 1529 9.10996 contract inside

951 1531 9.10978 expand

952 1532 9.10978 reflect

953 1533 9.10978 reflect

954 1534 9.10978 reflect

955 1536 9.10978 contract inside

956 1538 9.10978 contract inside

957 1539 9.10978 reflect

958 1541 9.10966 reflect

959 1543 9.10966 contract outside

960 1545 9.10963 reflect

961 1547 9.1096 contract inside

962 1549 9.1095 reflect

963 1551 9.10945 reflect

964 1552 9.10945 reflect

965 1554 9.10929 expand

966 1556 9.10929 contract inside

967 1557 9.10929 reflect

968 1559 9.10929 contract inside

969 1560 9.10929 reflect

970 1562 9.10929 contract inside

971 1563 9.10929 reflect

972 1564 9.10929 reflect

973 1566 9.1092 reflect

974 1567 9.1092 reflect

975 1569 9.10895 expand

976 1570 9.10895 reflect

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978 1572 9.10895 reflect

979 1574 9.10892 expand

980 1575 9.10892 reflect

981 1576 9.10892 reflect

982 1578 9.10883 expand

983 1580 9.10883 contract inside

984 1581 9.10883 reflect

985 1583 9.10843 expand

986 1584 9.10843 reflect

987 1585 9.10843 reflect

988 1587 9.10843 contract inside

989 1588 9.10843 reflect

990 1590 9.10843 contract outside

991 1592 9.10826 reflect

992 1594 9.10801 expand

993 1596 9.10801 contract inside

994 1597 9.10801 reflect

995 1598 9.10801 reflect

996 1599 9.10801 reflect

997 1600 9.10801 reflect

998 1601 9.10801 reflect

999 1602 9.10801 reflect

1000 1604 9.10801 contract inside

1001 1606 9.10801 contract inside

1002 1607 9.10801 reflect

1003 1608 9.10801 reflect

1004 1609 9.10801 reflect

1005 1611 9.10801 contract inside

1006 1612 9.10801 reflect

1007 1614 9.10797 reflect

1008 1616 9.10797 contract outside

1009 1618 9.10774 expand

1010 1619 9.10774 reflect

1011 1621 9.10774 contract inside

1012 1622 9.10774 reflect

1013 1623 9.10774 reflect

1014 1624 9.10774 reflect

1015 1625 9.10774 reflect

1016 1626 9.10774 reflect

1017 1628 9.10774 contract inside

1018 1630 9.10764 expand

1019 1631 9.10764 reflect

1020 1632 9.10764 reflect

1021 1633 9.10764 reflect

1022 1635 9.10764 contract inside

1023 1637 9.10764 contract outside

1024 1638 9.10764 reflect

1025 1640 9.10761 reflect

1026 1642 9.10761 contract inside

1027 1644 9.10745 expand

1028 1645 9.10745 reflect

1029 1647 9.10745 contract inside

1030 1648 9.10745 reflect

1031 1650 9.10745 contract inside

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1036 1659 9.10743 reflect

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1059 1696 9.10742 reflect

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1061 1699 9.10742 reflect

1062 1701 9.10742 contract inside

1063 1703 9.10741 contract inside

1064 1705 9.10739 expand

1065 1706 9.10739 reflect

1066 1707 9.10739 reflect

1067 1709 9.10739 contract inside

1068 1710 9.10739 reflect

1069 1711 9.10739 reflect

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1073 1716 9.10739 reflect

1074 1718 9.10739 contract inside

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1089 1745 9.10739 contract inside

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1093 1750 9.10739 contract inside

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1095 1754 9.10739 contract inside

1096 1756 9.10738 reflect

1097 1758 9.10738 contract inside

1098 1760 9.10738 contract inside

1099 1762 9.10738 expand

1100 1763 9.10738 reflect

1101 1765 9.10738 contract inside

1102 1767 9.10738 contract inside

1103 1769 9.10738 contract inside

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1120 1798 9.10738 reflect

1121 1799 9.10738 reflect

1122 1801 9.10738 contract inside

1123 1803 9.10738 contract inside

1124 1804 9.10738 reflect

1125 1806 9.10738 contract inside

1126 1808 9.10738 contract inside

1127 1809 9.10738 reflect

1128 1810 9.10738 reflect

1129 1812 9.10738 contract inside

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1134 1821 9.10738 contract outside

1135 1823 9.10738 reflect

1136 1825 9.10738 contract inside

1137 1827 9.10738 contract outside

1138 1828 9.10738 reflect

1139 1829 9.10738 reflect

1140 1831 9.10738 expand

1141 1833 9.10738 contract inside

1142 1834 9.10738 reflect

1143 1836 9.10738 contract inside

1144 1837 9.10738 reflect

1145 1839 9.10738 contract inside

1146 1840 9.10738 reflect

1147 1842 9.10738 contract inside

1148 1844 9.10738 contract inside

1149 1845 9.10738 reflect

1150 1847 9.10738 contract inside

1151 1848 9.10738 reflect

1152 1850 9.10738 contract inside

1153 1851 9.10738 reflect

1154 1853 9.10738 contract inside

1155 1855 9.10738 contract inside

1156 1856 9.10738 reflect

1157 1858 9.10738 contract inside

1158 1860 9.10738 contract inside

1159 1862 9.10738 contract inside

1160 1864 9.10738 contract inside

1161 1866 9.10738 contract inside

1162 1867 9.10738 reflect

1163 1869 9.10738 contract inside

1164 1871 9.10738 contract inside

1165 1873 9.10738 contract inside

1166 1875 9.10738 reflect

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1169 1880 9.10738 reflect

1170 1882 9.10738 contract inside

1171 1884 9.10738 contract inside

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1173 1887 9.10738 contract inside

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1177 1895 9.10738 reflect

1178 1897 9.10738 contract inside

1179 1899 9.10738 reflect

1180 1900 9.10738 reflect

1181 1902 9.10738 reflect

1182 1904 9.10738 contract inside

1183 1906 9.10738 contract inside

1184 1907 9.10738 reflect

1185 1909 9.10738 contract inside

1186 1911 9.10738 contract inside

1187 1913 9.10738 contract inside

1188 1915 9.10738 reflect

1189 1917 9.10738 contract inside

1190 1919 9.10738 contract inside

1191 1921 9.10738 contract inside

1192 1923 9.10738 contract inside

1193 1925 9.10738 contract inside

1194 1927 9.10738 contract inside

1195 1928 9.10738 reflect

1196 1930 9.10738 contract inside

1197 1932 9.10738 contract inside

1198 1933 9.10738 reflect

1199 1935 9.10738 contract inside

1200 1937 9.10738 contract inside

1201 1939 9.10738 contract inside

1202 1941 9.10738 contract inside

1203 1943 9.10738 contract inside

1204 1945 9.10738 reflect

1205 1947 9.10738 contract inside

1206 1948 9.10738 reflect

1207 1950 9.10738 contract inside

1208 1952 9.10738 contract inside

1209 1954 9.10738 contract inside

1210 1955 9.10738 reflect

1211 1956 9.10738 reflect

1212 1957 9.10738 reflect

1213 1959 9.10738 contract inside

1214 1961 9.10738 contract inside

1215 1963 9.10738 contract inside

1216 1965 9.10738 contract outside

1217 1966 9.10738 reflect

1218 1968 9.10738 reflect

1219 1970 9.10738 contract inside

1220 1972 9.10738 reflect

1221 1974 9.10738 reflect

1222 1975 9.10738 reflect

1223 1977 9.10738 contract inside

1224 1979 9.10738 contract inside

1225 1980 9.10738 reflect

1226 1981 9.10738 reflect

1227 1983 9.10738 contract inside

1228 1985 9.10738 contract inside

1229 1987 9.10738 contract inside

1230 1988 9.10738 reflect

1231 1989 9.10738 reflect

1232 1991 9.10738 contract inside

1233 1993 9.10738 reflect

1234 1995 9.10738 contract inside

1235 1997 9.10738 contract inside

1236 1998 9.10738 reflect

1237 2000 9.10738 contract inside

1238 2002 9.10738 contract inside

1239 2004 9.10738 contract inside

1240 2006 9.10738 contract inside

1241 2008 9.10738 contract inside

1242 2010 9.10738 contract inside

1243 2012 9.10738 contract inside

1244 2013 9.10738 reflect

1245 2014 9.10738 reflect

1246 2015 9.10738 reflect

1247 2017 9.10738 contract inside

1248 2019 9.10738 contract inside

1249 2021 9.10738 contract inside

1250 2022 9.10738 reflect

1251 2023 9.10738 reflect

1252 2025 9.10738 contract inside

1253 2026 9.10738 reflect

1254 2028 9.10738 reflect

1255 2030 9.10738 contract inside

1256 2031 9.10738 reflect

1257 2032 9.10738 reflect

1258 2033 9.10738 reflect

1259 2035 9.10738 contract inside

1260 2037 9.10738 contract inside

1261 2038 9.10738 reflect

1262 2039 9.10738 reflect

1263 2041 9.10738 reflect

1264 2043 9.10738 contract inside

1265 2045 9.10738 contract outside

1266 2046 9.10738 reflect

1267 2048 9.10738 contract inside

1268 2050 9.10738 contract inside

1269 2052 9.10738 contract inside

1270 2054 9.10738 contract inside

1271 2056 9.10738 reflect

1272 2058 9.10738 contract inside

1273 2060 9.10738 contract inside

1274 2062 9.10738 contract inside

1275 2063 9.10738 reflect

1276 2065 9.10738 contract inside

1277 2067 9.10738 contract inside

1278 2069 9.10738 contract inside

1279 2071 9.10738 contract inside

1280 2073 9.10738 contract inside

1281 2075 9.10738 reflect

1282 2083 9.10738 shrink

1283 2085 9.10738 contract inside

1284 2087 9.10738 contract inside

1285 2089 9.10738 contract inside

1286 2091 9.10738 contract inside

1287 2093 9.10738 contract inside

1288 2094 9.10738 reflect

1289 2095 9.10738 reflect

1290 2097 9.10738 reflect

1291 2099 9.10738 contract inside

1292 2101 9.10738 contract inside

1293 2103 9.10738 contract inside

1294 2105 9.10738 contract inside

1295 2107 9.10738 contract inside

1296 2109 9.10738 contract inside

1297 2111 9.10738 contract inside

1298 2113 9.10738 contract inside

1299 2115 9.10738 contract inside

1300 2117 9.10738 contract inside

1301 2118 9.10738 reflect

1302 2120 9.10738 contract inside

1303 2122 9.10738 contract inside

1304 2123 9.10738 reflect

1305 2125 9.10738 contract inside

1306 2127 9.10738 contract inside

1307 2129 9.10738 contract inside

1308 2131 9.10738 contract inside

1309 2133 9.10738 contract inside

1310 2135 9.10738 contract inside

1311 2136 9.10738 reflect

1312 2138 9.10738 contract inside

1313 2140 9.10738 contract inside

1314 2142 9.10738 expand

1315 2144 9.10738 expand

1316 2145 9.10738 reflect

1317 2147 9.10738 contract inside

1318 2149 9.10738 contract inside

1319 2151 9.10738 expand

1320 2152 9.10738 reflect

1321 2154 9.10738 contract inside

1322 2156 9.10738 reflect

1323 2157 9.10738 reflect

1324 2159 9.10738 reflect

1325 2161 9.10738 contract inside

1326 2163 9.10738 contract inside

1327 2171 9.10738 shrink

1328 2172 9.10738 reflect

1329 2174 9.10738 contract outside

1330 2176 9.10738 contract inside

1331 2178 9.10738 reflect

1332 2179 9.10738 reflect

1333 2180 9.10738 reflect

1334 2182 9.10738 reflect

1335 2184 9.10738 expand

1336 2192 9.10738 shrink

1337 2193 9.10738 reflect

1338 2195 9.10738 reflect

1339 2197 9.10738 contract inside

1340 2199 9.10738 contract inside

1341 2200 9.10738 reflect

1342 2201 9.10738 reflect

1343 2202 9.10738 reflect

1344 2210 9.10738 shrink

1345 2212 9.10738 contract inside

1346 2214 9.10738 contract inside

1347 2216 9.10738 contract inside

**1348 2224 9.10738 shrink**

**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 =[189.1094,1.1386,0.3733,1.2324,4.8436,-1.5708]; % fval =9.1074;**

exitflag =-1

output =

problemtype: 'unconstrained'

rngstate: [1x1 struct]

generations: 32

funccount: 5524

message: [1x269 char]

population =

188.2626 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 2.0851 0.3338 1.2201 5.2938 -1.5427

187.8468 1.1250 -0.8852 1.2201 5.0000 -2.3702

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.9585 1.5393 0.3338 1.8263 4.1423 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

187.8101 1.1250 0.3338 1.2201 5.0000 -1.5427

189.5461 1.1250 0.0993 1.2201 6.1893 -1.6329

188.0437 -0.4102 0.0566 2.4459 5.0006 -1.8506

188.9585 1.1250 0.7301 1.0317 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.2112 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

189.4451 -0.4306 0.1795 1.0308 5.1732 -1.4484

188.2614 1.1250 0.3338 1.2201 5.0000 -2.0018

188.2614 1.1250 0.3338 0.3193 4.4729 -1.6819

189.5124 1.8923 0.6670 1.8057 4.6011 -0.5180

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2647 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.2902 1.2201 5.0000 -0.5158

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

189.9790 1.3137 0.4321 0.2410 5.0000 -1.0724

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

189.9790 1.1250 0.0145 1.2201 5.0494 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 0.4020 0.3490 1.2201 5.0000 -1.5427

188.2614 0.5700 0.3338 0.8457 5.2713 -1.6926

187.6504 1.1250 0.3338 1.6376 5.0000 -1.5427

187.4325 1.1250 -0.6064 2.7189 5.3303 -2.6285

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.9585 1.1250 0.7301 1.0317 5.0000 -1.5427

188.8336 1.1250 0.3338 1.2201 5.0000 -1.5442

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.3224

188.2614 1.1250 0.3338 1.2201 5.0386 -1.5427

188.2626 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

186.4128 1.1250 0.3338 1.2201 5.7123 -1.5427

188.2614 1.1250 0.3338 0.3193 5.0000 -1.5427

188.5231 1.1250 -0.1875 1.2201 5.0000 -1.5427

188.2614 1.1986 0.3338 1.2201 5.0000 -2.8574

188.2614 1.1250 0.3338 1.6347 5.0000 -1.5427

187.4994 1.4601 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

187.4573 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.1641 1.2201 4.8282 -1.5427

188.2614 1.1250 0.3338 -0.6456 5.0000 -1.5427

188.2614 1.4912 -0.4367 1.2201 5.0000 -2.2353

187.3882 1.1250 0.7916 1.5411 4.4858 -1.5413

190.0823 1.1250 0.1694 1.2201 6.7327 0.4155

188.2614 1.1250 0.3338 1.2201 4.9483 -1.5427

188.2614 1.5393 0.3706 1.8263 4.1423 -1.2740

187.8101 1.1250 -0.6591 1.2201 5.0000 -1.5427

188.2614 1.2022 0.3032 0.8146 5.0000 -1.5867

188.9585 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2626 1.1250 0.3338 1.2201 5.0000 -1.5427

188.0983 1.1250 0.7437 1.2937 5.0000 -1.5427

188.2614 0.1270 0.3338 1.2201 5.0000 -1.5427

188.2614 0.9715 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 0.1793 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.6345 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 0.4023 -1.2083 1.2201 4.6627 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -0.5158

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2626 1.1250 -0.3219 1.2201 5.0000 -1.6819

190.0823 1.1250 0.1694 0.8539 5.0000 0.4155

187.8303 0.9453 -0.5504 1.2201 5.3714 -3.0180

188.2614 1.1250 0.3338 1.2201 5.0000 -1.5427

188.2614 1.1250 2.1132 0.7659 5.5578 -2.5114

188.2614 1.1250 -0.7977 1.2201 5.0000 -1.5427

188.2641 0.3466 0.9128 0.2556 4.6480 -2.2088

187.6599 1.6779 0.6248 1.7375 4.5444 -1.5490

185.5144 1.2586 -0.4825 2.3008 4.5814 -2.3219

187.2366 2.5331 -0.0270 1.1875 5.8186 -0.9031

188.9448 1.1646 0.7538 1.5576 5.0498 -1.5456

187.6570 2.7870 0.7430 0.9496 4.5047 -1.1123

187.1947 1.4079 -0.6348 0.3657 5.0717 0.8463

188.1700 1.3115 -0.7982 1.6277 6.0389 -0.6283

188.6612 1.2905 0.0994 2.6168 3.6236 -2.8544

187.9528 1.7948 0.9899 0.8005 3.8082 -0.9063

188.4498 0.4745 -0.2564 1.1466 4.8119 -0.5533

189.7453 0.9531 -0.0795 0.5160 5.1506 -1.5829

187.6371 0.1165 0.1881 -0.1618 5.3447 -1.2061

188.2627 1.3582 0.7458 -0.1880 4.6564 -2.6031

188.8398 0.0534 0.7099 1.5446 5.3263 -0.9641

188.7432 1.5388 -0.9666 1.0045 4.0447 -1.5814

187.8063 2.1835 0.1611 -0.4336 4.0405 -0.4873

188.3038 1.8991 0.4146 1.5940 5.4002 -2.5850

188.3803 1.3185 0.5082 1.1391 4.9137 -2.5643

188.1079 0.9808 1.1695 0.8526 4.5002 -2.0362

scores =

1.0e+004 \*

0.0010

0.0010

0.0010

0.5377

0.3115

0.0010

0.1209

0.0010

0.0019

0.0666

0.6610

0.0362

0.0010

0.0010

0.0107

0.0010

0.0010

0.4675

0.0583

0.0771

0.1473

0.0010

0.0010

0.0889

0.0010

0.0865

0.0010

0.0010

0.0084

0.0010

0.3440

0.3447

0.1246

0.5056

0.0010

0.0362

0.0021

0.0010

0.0023

0.0027

0.0010

0.0010

0.0298

0.0664

0.0400

0.2124

0.1252

0.1352

0.0010

0.0027

0.0010

0.4993

0.3160

0.1278

0.3555

0.0013

0.1154

0.1387

0.0951

0.0024

0.0010

0.0305

0.3629

0.0426

0.1245

0.0010

0.0010

0.0010

0.0010

0.0017

0.6228 - 0.0123i

0.0897

0.0010

0.0010

0.0813

0.4054

0.4122

0.0010

0.5562 - 0.0005i

0.1694

0.4665

0.0897

0.3556

0.8435

0.1312

1.2728

0.6859

0.3353

0.3524

0.1710

0.4127

0.0724

0.4337

0.4576

0.3581

0.4216

0.7295

0.3500

0.1697

0.3176 - 0.0445i

Caculation finished and the elapsedTime= 49.9384hours

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

**x =[189.1094,1.1386,0.3733,1.2324,4.8436,-1.5708]; % fval =9.1074;**

**P\_asterisk =9.1068; L =1.0000; delta = -3.9429e-005;AR =3.7643; Re =171.7340;**

**penaltyfun1 =0.0789; penaltyfun2 =0; penaltyfun5 = 0; obj\_function =9.1857;**

**Rario\_F\_vertical\_horiz\_aver =3.0332;**

**F\_vertical\_to\_horiz\_rms =1.1241;**

**P\_aero\_aver\_to\_inertia\_aver =1.4710;**

**下面是精确值：**

**x =[1.8910943e+002,1.1386312e+0,3.7329401e-001,1.2324038e+0,4.8435708e+0, -1.5707963e+0];**

**P\_asterisk =9.1074; L = 1.0000;delta =-1.5699e-007; AR =3.7643; Re =171.7340;**

**penaltyfun1 =3.1397e-004; penaltyfun2 =0; penaltyfun5 = 0; obj\_function =9.1077;**

**Rario\_F\_vertical\_horiz\_aver =3.0333;**

**F\_vertical\_to\_horiz\_rms =1.1241;**

**P\_aero\_aver\_to\_inertia\_aver =1.4711;**

**由以下初始值代入计算而得：**

**% x =[188.0,1.125,0.01,1.2201,5,-1.5427];**

**% P\_asterisk =9.5682; L =1.0045; % C\_maxyaxis=0.356737;**