# Real (start point = 0.15)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Methods | objgradient | algorithms | bound | gamma | result | Time cost/s |
| fmincon | no | Sqp | [-0.3,0.3] | 0.159 | 0.0227 | 78 |
| Active-set | [-0.3,0.3] | 0.0228 | 32 |
| [] | 0.0228 | 31 |
| Interior-point | [] | 0.0227 | 110.0657 |
| [-0.3,0.3] | 0.0227 | 143 |
|  | | | | |
| sqp | [] | 0.16 | 3.6e-7 | 90 |
| Active-set | [] | 0.0011 | 34 |
| Interior-point | [] | 7e-15 | 128 |
|  |  |  |  |  |
| sqp | [] | 0.01 | 0.2916 | 792 |
| Active-set | [] |  |  |
| Interior-point | [] | 0.2916 | 915 |
| yes | Interior-point | [] | 0.01 | 0.2919 | 577 |
|  | Trust\_region(Hessian) |  | 0.01 | 0.2919 | 486 |
|  |  |  | 0.16 | 0.0523 | 22 |
|  | | | | | | |
| lsqnonlin | no | trust-region-reflective | [] | 0.16 | 0.0054 | 44 |
|  | [0,0.3] | 0.16 | 0.017 | 39 |
|  | yes |  | [] | 0.16 | 0.0095 | 21 |
|  | | | | | | |
|  | No | trust-region-reflective | [] | 0.01 | 0.2920 | 450 |
|  | yes |  | [] | 0.01 | 0.2919 | 208 |
|  | | | | | | |
| fsolve | yes | trust-region-dogleg | NaN | 0.16 | 0.0095 | 22 |
| 0.01 | 0.2919 | 214 |
|  |  |  |  |  |  |