|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Эксперимент [1]** | **0.0168** | **-** | **0.803** | **-** |
| **y+=1** | | | | |
|  | Cxa | ΔCx, % | Cya | ΔCy, % |
| FASTRAN, SST | 0.0286 | 70.36 | 0.8136 | 1.32 |
| FLUENT, SST | 0.0144 | 14.48 | 0.8260 | 2.87 |
| FLUENT, SA | 0.0188 | 12.04 | 0.8085 | 0.69 |
| FLUENT, KE, Standard | 0.0245 | 45.89 | 0.7362 | 8.32 |
| FLUENT, KE, Scalable | 0.0283 | 68.60 | 0.8291 | 3.25 |
| FLUENT, KE\_RNG, Scalable | 0.0215 | 27.84 | 0.8398 | 4.58 |
| FLUENT, KE\_RNG, Menter | 0.0198 | 17.86 | 0.7851 | 2.23 |
| FLUENT, KE\_Realizable, Scalable | 0.0221 | 31.82 | 0.8626 | 7.42 |
| LAZURIT, 3.3.13, KE | 0.0206 | 22.43 | 0.7447 | 7.26 |
| LAZURIT, 3.3.19-b5.2+i+1, KE\_Durbin | 0.0182 | 8.51 | 0.7389 | 7.98 |
| LAZURIT, 3.3.19, KE | 0.0206 | 22.46 | 0.7447 | 7.26 |
| LAZURIT, 3.3.19, KE\_Durbin | 0.0182 | 8.51 | 0.7389 | 7.98 |
| LAZURIT, 3.3.19, KE\_Durbin, wf\_0 | 0.0177 | 5.41 | 0.7628 | 5.01 |
| LAZURIT, 3.3.19, KE\_Durbin, wf\_0.5 | 0.0182 | 8.52 | 0.7389 | 7.98 |
| LAZURIT, 3.3.13, SA | 0.0177 | 5.31 | 0.7553 | 5.94 |
| LAZURIT, 3.3.19-b5.2+i+1, SA | 0.0179 | 6.28 | 0.7571 | 5.72 |
| LAZURIT, 3.5.5, suth | 0.0179 | 6.84 | 0.7669 | 4.49 |
| LAZURIT.RANS.2.3.1 | 0.0175 | 3.89 | 0.7522 | 6.32 |
| **y+=2-3** | | | | |
| LAZURIT, 3.5.13, SA | 0.0179 | 6.43 | 0.7408 | 7.75 |
| LAZURIT, 3.5.13, ke, Durbin | 0.0167 | 0.42 | 0.8189 | 1.98 |
| Fluent, 21.1, SA | 0.0289 | 71.86 | 1.3063 | 62.68 |
| Fluent, 21.1, SST | 0.0265 | 57.80 | 1.2511 | 55.81 |
| **y+=5** | | | | |
| LAZURIT, 3.5.13, SA | 0.0178 | 5.80 | 0.7418 | 7.62 |
| LAZURIT, 3.5.13, ke, Durbin | 0.0169 | 0.63 | 0.8078 | 0.60 |
| Fluent, 21.1, SA | 0.0287 | 70.68 | 1.3225 | 64.70 |
| Fluent, 21.1, SST | 0.0267 | 59.14 | 1.2683 | 57.94 |
| **y+=8** | | | | |
| LAZURIT, 3.5.13, SA | 0.0175 | 4.24 | 0.7535 | 6.17 |
| LAZURIT, 3.5.13, ke, Durbin | 0.0168 | 0.23 | 0.8243 | 2.65 |
| Fluent, 21.1, SA | 0.0287 | 70.92 | 1.3257 | 65.09 |
| Fluent, 21.1, SST | 0.0267 | 59.15 | 1.2799 | 59.39 |
| **y+=20** | | | | |
| FASTRAN, SST | 0.0195 | 15.84 | 0.8193 | 2.02 |
| FLUENT, SST | 0.0174 | 3.50 | 0.7941 | 1.11 |
| FLUENT, SA | 0.0201 | 19.85 | 0.8130 | 1.25 |
| FLUENT, KE, Standard | 0.0243 | 44.94 | 0.8257 | 2.83 |
| FLUENT, KE, Scalable | 0.0242 | 43.78 | 0.8280 | 3.11 |
| FLUENT, KE\_RNG, Scalable | 0.0198 | 17.69 | 0.8493 | 5.76 |
| FLUENT, KE\_RNG, Menter | 0.0200 | 19.27 | 0.8449 | 5.22 |
| FLUENT, KE\_Realizable, Scalable | 0.0199 | 18.64 | 0.8443 | 5.15 |
| LAZURIT, 3.3.13, KE | 0.0199 | 18.66 | 0.7878 | 1.89 |
| LAZURIT, 3.3.19-b5.2+i+1, KE\_Durbin | 0.0176 | 4.69 | 0.7942 | 1.10 |
| LAZURIT, 3.3.13, SA | 0.0172 | 2.37 | 0.7748 | 3.52 |
| LAZURIT, 3.3.19-b5.2+i+1, SA | 0.0172 | 2.29 | 0.7766 | 3.28 |
| LAZURIT, 3.5.5, suth | 0.0174 | 3.78 | 0.7955 | 0.94 |
| LAZURIT.RANS.2.3.1 | 0.0176 | 4.50 | 0.7894 | 1.70 |
| **y+=50** | | | | |
| FASTRAN, SST | 0.0196 | 16.83 | 0.8281 | 3.13 |
| FLUENT, SST | 0.0148 | 11.65 | 0.7736 | 3.66 |
| FLUENT, SA | 0.0175 | 4.35 | 0.8072 | 0.53 |
| FLUENT, KE, Standard | 0.0215 | 27.99 | 0.8256 | 2.82 |
| FLUENT, KE, Scalable | 0.0189 | 12.48 | 0.8305 | 3.43 |
| FLUENT, KE\_RNG, Scalable | 0.0173 | 2.72 | 0.8321 | 3.63 |
| FLUENT, KE\_RNG, Menter | 0.0178 | 5.77 | 0.8292 | 3.27 |
| FLUENT, KE\_Realizable, Scalable | 0.0169 | 0.53 | 0.8280 | 3.12 |
| LAZURIT, 3.3.13, KE | 0.0197 | 17.43 | 0.7991 | 0.49 |
| LAZURIT, 3.3.19-b5.2+i+1, KE\_Durbin | 0.0177 | 5.54 | 0.8028 | 0.02 |
| LAZURIT, 3.3.13, SA | 0.0172 | 2.41 | 0.7859 | 2.13 |
| LAZURIT, 3.3.19-b5.2+i+1, SA | 0.0172 | 2.32 | 0.7884 | 1.82 |
| LAZURIT, 3.5.5, suth | 0.0175 | 4.44 | 0.8067 | 0.46 |
| LAZURIT.RANS.2.3.1 | 0.0176 | 4.77 | 0.8028 | 0.03 |
| **y+=100** | | | | |
| FASTRAN, SST | 0.0127 | 24.14 | 0.6943 | 13.53 |
| FLUENT, SST | 0.0151 | 10.18 | 0.7691 | 4.23 |
| FLUENT, SA | 0.0164 | 2.49 | 0.8080 | 0.62 |
| FLUENT, KE, Standard | 0.0221 | 31.77 | 0.8188 | 1.97 |
| FLUENT, KE, Scalable | 0.0205 | 22.30 | 0.8276 | 3.07 |
| FLUENT, KE\_RNG, Scalable | 0.0174 | 3.73 | 0.8280 | 3.11 |
| FLUENT, KE\_RNG, Menter | 0.0176 | 4.59 | 0.8282 | 3.14 |
| FLUENT, KE\_Realizable, Scalable | 0.0172 | 2.65 | 0.8251 | 2.75 |
| LAZURIT, 3.3.13, KE | 0.0187 | 11.26 | 0.8063 | 0.41 |
| LAZURIT, 3.3.19-b5.2+i+1, KE\_Durbin | 0.0175 | 4.39 | 0.8061 | 0.39 |
| LAZURIT, 3.3.13, SA | 0.0168 | 0.25 | 0.7862 | 2.09 |
| LAZURIT, 3.3.19-b5.2+i+1, SA | 0.0168 | 0.06 | 0.7877 | 1.91 |
| LAZURIT, 3.5.5, suth | 0.0172 | 2.64 | 0.8062 | 0.40 |
| LAZURIT.RANS.2.4.5 | 0.0174 | 3.53 | 0.8058 | 0.35 |
| **y+=300** | | | | |
| FASTRAN, SST | 0.0158 | 5.87 | 0.6870 | 14.45 |
| FLUENT, SST | 0.0146 | 13.06 | 0.7324 | 8.79 |
| FLUENT, SA | 0.0164 | 2.37 | 0.7877 | 1.91 |
| FLUENT, KE, Standard | 0.0232 | 37.84 | 0.8302 | 3.38 |
| FLUENT, KE, Scalable | 0.0198 | 18.15 | 0.8253 | 2.78 |
| FLUENT, KE\_RNG, Scalable | 0.0173 | 2.75 | 0.8090 | 0.74 |
| FLUENT, KE\_RNG, Menter | 0.0174 | 3.43 | 0.8098 | 0.85 |
| FLUENT, KE\_Realizable, Scalable | 0.0172 | 2.67 | 0.8195 | 2.06 |
| LAZURIT, 3.3.13, KE | 0.0174 | 3.78 | 0.8087 | 0.71 |
| LAZURIT, 3.3.19-b5.2+i+1, KE\_Durbin | 0.0147 | 12.35 | 0.7542 | 6.08 |
| LAZURIT, 3.3.13, SA | 0.0147 | 12.34 | 0.7289 | 9.22 |
| LAZURIT, 3.3.19-b5.2+i+1, SA | 0.0148 | 11.72 | 0.7303 | 9.06 |
| LAZURIT, 3.5.5, suth | 0.0149 | 11.56 | 0.7530 | 6.23 |
| LAZURIT.RANS.2.4.5 | 0.0246 | 46.33 | 0.5725 | 28.71 |