Table 5-: Comparison of Computational Efficiency for Bitcoin Option GPD Tail Fitting  
(Left: The proposed method; Right: Birru-Figlewski method)

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| Execution Time: | 2025/8/25 16:25 |  |  |
| Execution Conditions: | Each time generates 10 weekly return RNDs with GPD distribution tail fitting. | | |
| Option Expiration Dates: | 2023/9/22, 2023/9/29, 2023/10/13, 2023/10/20, 2023/10/27, 2023/11/10, 2023/11/17, 2023/11/24, 2023/12/15, 2023/12/22 | | |
| The proposed method |  | Birru-Figlewski method |  |
| 1st Execution Time (sec) | 311.25 | 1st Execution Time (sec) | 347.84 |
| 2nd Execution Time (sec) | 313.24 | 2nd Execution Time (sec) | 346.97 |
| 3rd Execution Time (sec) | 311.65 | 3rd Execution Time (sec) | 347.65 |
| 4th Execution Time (sec) | 311.87 | 4th Execution Time (sec) | 347.57 |
| 5th Execution Time (sec) | 313.46 | 5th Execution Time (sec) | 347.53 |
| 6th Execution Time (sec) | 314.12 | 6th Execution Time (sec) | 347.86 |
| 7th Execution Time (sec) | 312.79 | 7th Execution Time (sec) | 347.90 |
| 8th Execution Time (sec) | 312.52 | 8th Execution Time (sec) | 348.22 |
| 9th Execution Time (sec) | 314.33 | 9th Execution Time (sec) | 348.43 |
| 10th Execution Time | 313.45 | 10th Execution Time | 348.55 |
| Shortest Execution Time (sec) | 311.25 | Shortest Execution Time (sec) | 346.97 |
| Longest Execution Time (sec) | 314.33 | Longest Execution Time (sec) | 348.55 |
| Average Execution Time (sec) | 312.87 | Average Execution Time (sec) | 347.85 |