# Synthetic HPC Dataset

This document contains a synthetic dataset for HPC workload management. The dataset includes details about Job ID, CPU cores, Memory usage, Runtime, and Priority levels for 100 simulated HPC jobs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| JobID | CPU | Memory (GB) | Runtime (seconds) | Priority |
| 1 | 32 | 103 | 637 | Low |
| 2 | 10 | 126 | 958 | Low |
| 3 | 12 | 92 | 714 | High |
| 4 | 16 | 68 | 935 | High |
| 5 | 8 | 100 | 409 | Low |
| 6 | 31 | 70 | 120 | High |
| 7 | 17 | 116 | 21 | Low |
| 8 | 31 | 80 | 417 | Low |
| 9 | 22 | 69 | 843 | Low |
| 10 | 21 | 112 | 512 | Low |
| 11 | 16 | 119 | 107 | Low |
| 12 | 26 | 8 | 158 | Low |
| 13 | 6 | 54 | 91 | Low |
| 14 | 10 | 93 | 787 | High |
| 15 | 22 | 98 | 480 | Medium |
| 16 | 21 | 61 | 501 | High |
| 17 | 3 | 23 | 227 | Medium |
| 18 | 1 | 88 | 460 | Medium |
| 19 | 2 | 105 | 353 | Low |
| 20 | 25 | 101 | 361 | Medium |
| 21 | 26 | 101 | 348 | High |
| 22 | 21 | 124 | 579 | Medium |
| 23 | 5 | 80 | 87 | Low |
| 24 | 26 | 47 | 365 | Low |
| 25 | 24 | 98 | 689 | Low |
| 26 | 32 | 69 | 844 | High |
| 27 | 3 | 15 | 78 | Low |
| 28 | 5 | 75 | 735 | Medium |
| 29 | 24 | 21 | 202 | Medium |
| 30 | 21 | 21 | 776 | Low |
| 31 | 27 | 103 | 641 | Low |
| 32 | 16 | 11 | 814 | High |
| 33 | 32 | 50 | 585 | High |
| 34 | 2 | 106 | 992 | High |
| 35 | 18 | 109 | 976 | High |
| 36 | 2 | 17 | 982 | Medium |
| 37 | 8 | 63 | 486 | Low |
| 38 | 16 | 29 | 805 | Medium |
| 39 | 7 | 46 | 79 | High |
| 40 | 12 | 109 | 393 | Low |
| 41 | 13 | 90 | 29 | Low |
| 42 | 17 | 52 | 137 | High |
| 43 | 9 | 88 | 155 | Low |
| 44 | 8 | 46 | 280 | Low |
| 45 | 25 | 36 | 385 | Low |
| 46 | 23 | 63 | 559 | Low |
| 47 | 21 | 127 | 580 | High |
| 48 | 24 | 98 | 421 | Medium |
| 49 | 12 | 8 | 54 | Medium |
| 50 | 27 | 28 | 861 | Medium |
| 51 | 19 | 44 | 960 | Low |
| 52 | 17 | 70 | 995 | Medium |
| 53 | 30 | 128 | 695 | Low |
| 54 | 2 | 68 | 270 | Medium |
| 55 | 7 | 7 | 369 | High |
| 56 | 15 | 108 | 219 | High |
| 57 | 8 | 40 | 922 | Low |
| 58 | 18 | 20 | 762 | High |
| 59 | 22 | 87 | 759 | High |
| 60 | 4 | 13 | 63 | High |
| 61 | 7 | 54 | 805 | Medium |
| 62 | 2 | 119 | 952 | Medium |
| 63 | 24 | 72 | 654 | High |
| 64 | 12 | 93 | 662 | Medium |
| 65 | 18 | 125 | 513 | High |
| 66 | 7 | 86 | 443 | Low |
| 67 | 20 | 27 | 412 | High |
| 68 | 20 | 100 | 248 | Low |
| 69 | 10 | 81 | 38 | Medium |
| 70 | 23 | 5 | 348 | Low |
| 71 | 21 | 35 | 900 | High |
| 72 | 10 | 24 | 245 | Low |
| 73 | 32 | 82 | 16 | Medium |
| 74 | 13 | 63 | 567 | Medium |
| 75 | 19 | 69 | 246 | High |
| 76 | 28 | 52 | 843 | Low |
| 77 | 30 | 37 | 143 | Low |
| 78 | 11 | 98 | 697 | Medium |
| 79 | 19 | 123 | 980 | High |
| 80 | 6 | 91 | 89 | Medium |
| 81 | 17 | 109 | 810 | Low |
| 82 | 32 | 121 | 589 | Medium |
| 83 | 30 | 8 | 676 | Medium |
| 84 | 22 | 49 | 486 | Medium |
| 85 | 20 | 21 | 506 | High |
| 86 | 11 | 51 | 975 | Low |
| 87 | 30 | 98 | 418 | High |
| 88 | 3 | 26 | 913 | High |
| 89 | 28 | 110 | 859 | Low |
| 90 | 25 | 51 | 361 | Medium |
| 91 | 16 | 48 | 38 | Low |
| 92 | 19 | 101 | 544 | Medium |
| 93 | 13 | 9 | 826 | Low |
| 94 | 8 | 55 | 96 | Medium |
| 95 | 6 | 72 | 89 | Low |
| 96 | 27 | 65 | 583 | Low |
| 97 | 32 | 17 | 245 | Low |
| 98 | 11 | 127 | 797 | Low |
| 99 | 24 | 77 | 909 | Low |
| 100 | 7 | 30 | 877 | Medium |