|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| parameters | | | | | type | explanations |
| wandb | enabled | | | | bool | whether to enable wandb |
|  | project | | | | string | project name |
|  | name | | | | string | the name of this run |
| global | use\_file\_system | | | | bool | whether to enable the file system as the torch multi-thread sharing strategy |
|  | multi\_gpu | | | | bool | whether to enable multi-GPU, detailed [explanation](#multi-gpu) |
|  | experiment | | | | string | the name of this run |
|  | stale | | | | [explanation](#staleness_settings) | |
|  | dataset | path | | | string | the path of the dataset |
|  |  | params | | | dict | required parameters |
|  | iid | | | | [explanation](#data-distribution-settings) | |
|  | client\_num | | | | int | client num |
| server | path | | | | string | the path of server |
|  | epochs | | | | int | global epoch |
|  | model | path | | | string | the path of the model |
|  |  | params | | | dict | required parameters |
|  | scheduler | path | | | string | the path of the scheduler |
|  |  | schedule | | path | string | the path of the schedule |
|  |  |  | | params | dict | required parameters |
|  |  | other\_params | | | \* | other parameters |
|  | updater | path | | | string | the path of the updater |
|  |  | update | | path | string | the path of the update |
|  |  |  | | params | dict | required parameters |
|  |  | loss | | | [explanation](#adding-loss-function) | |
|  |  | num\_generator | | | [explanation](#num_generator) | |
|  |  | group | | path | string | the path of the updater |
|  |  |  | | params | dict | required parameters |
| client\_manager | path | | | | string | the path of the client manager |
| group\_manager | path | | | | string | the path of the group manager |
|  | group\_method | | path | | string | the path of the group method |
|  |  | | params | | dict | required parameters |
| queue\_manager | path | | | | string | the path of the queue manager |
|  | receiver | path | | | string | the path of the receiver |
|  |  | params | | | dict | required parameters |
|  | checker | path | | | string | the path of the checker |
|  |  | params | | | dict | required parameters |
| client | path | | | | string | the path of the client |
|  | epochs | | | | int | local epoch |
|  | batch\_size | | | | int | batch |
|  | model | path | | | string | the path of the model |
|  |  | params | | | dict | required parameters |
|  | loss | | | | [explanation](#adding-loss-function) | |
|  | mu | | | | float | proximal term’s coefficient |
|  | optimizer | path | | | string | the path of the optimizer |
|  |  | params | | | dict | required parameters |
|  | other\_params | | | | \* | other parameters |