Database Design

job {
  vender id
  job id
  group
  key
  role
  description
  priority
}

[task s]

[hash]

job_$group_$key$role
  _$jobid
→ {
  state _____
  description _____
  priority
  group
  role , vendor
}

[hash]

task_$jobid_$hash → {
  state _____
  port
  addressing _____
  data _____
  result _____
}

task {
  job id
  hash
  port
  addressing
  data
  result
}

worker_node {
  worker id
  description
  group, key
  role
  iP
  location
  service.hit
  ping.time
  state
}

[hash]

worker_$nodeid → {
  state _____
  desper _____
  group _____
  key _____
  role _____
}

vendor_node {
  node.id
  description
  iP
}

[hash]

vendor_node$vendorid →

Vendor-node
- desc
- ip
- location
- service.hit
- ping
- state

Vendor -node $vendorid ->
- state —
- desp —
- ip —

| list |

work
- group
- key
- hole
- priority
- file-id

work_$group-$key-$hole-$priority

-> $task-id

task data

| set |

jobsdone
- group
- key
- hole
- job-id

jobs_$group-$key-$hole

-> $job-id

| set |

tasks waiting
tasks pending
- jobid
- group
- key
- hole

tasks.pending_$group-$key-$hole-$jobid

-> $task-id

| key-value |

{ job ...... job_$group_$key-$hole
- reducer
- address
- total

statistics $\begin{cases} \text{job} \\ \text{task} \end{cases}$

[key value]

statistics_job_$group_$key_$hole $\rightarrow \Big\}$ total

statistics_task_$group_$key_$hole $\rightarrow \begin{cases} \text{port} \\ \text{total} \end{cases}$