Parent process (master)

User space Kernel space

(1) create worker processes

fork()

D sys-fork()

find unused took and update took variables

wakeup worker

processes

(3) check for task completion

wait-for-task completion()

D check task away for status

- if not finished, sleep on finish

condition.

- else return with sesult due to/sp

task execution.

@ child process flow on next page.

Worker # Child process User space Kernel Space check in task away for tending tasks

tit tending, pick task to
execute. O initiate task execution wait_for_task () (synchronous) + else, Sleep till tasks available for execution Setup return to user space for

task execution. | may need

extensions to

POB for this setup task execution (4) arguments) (2) return to kund task-ret() -3 → update task status & store result - update statistics vetuch

& wait-tor-task (re) setup vreturn to userspace _ of worker process. - look for work L wait for task