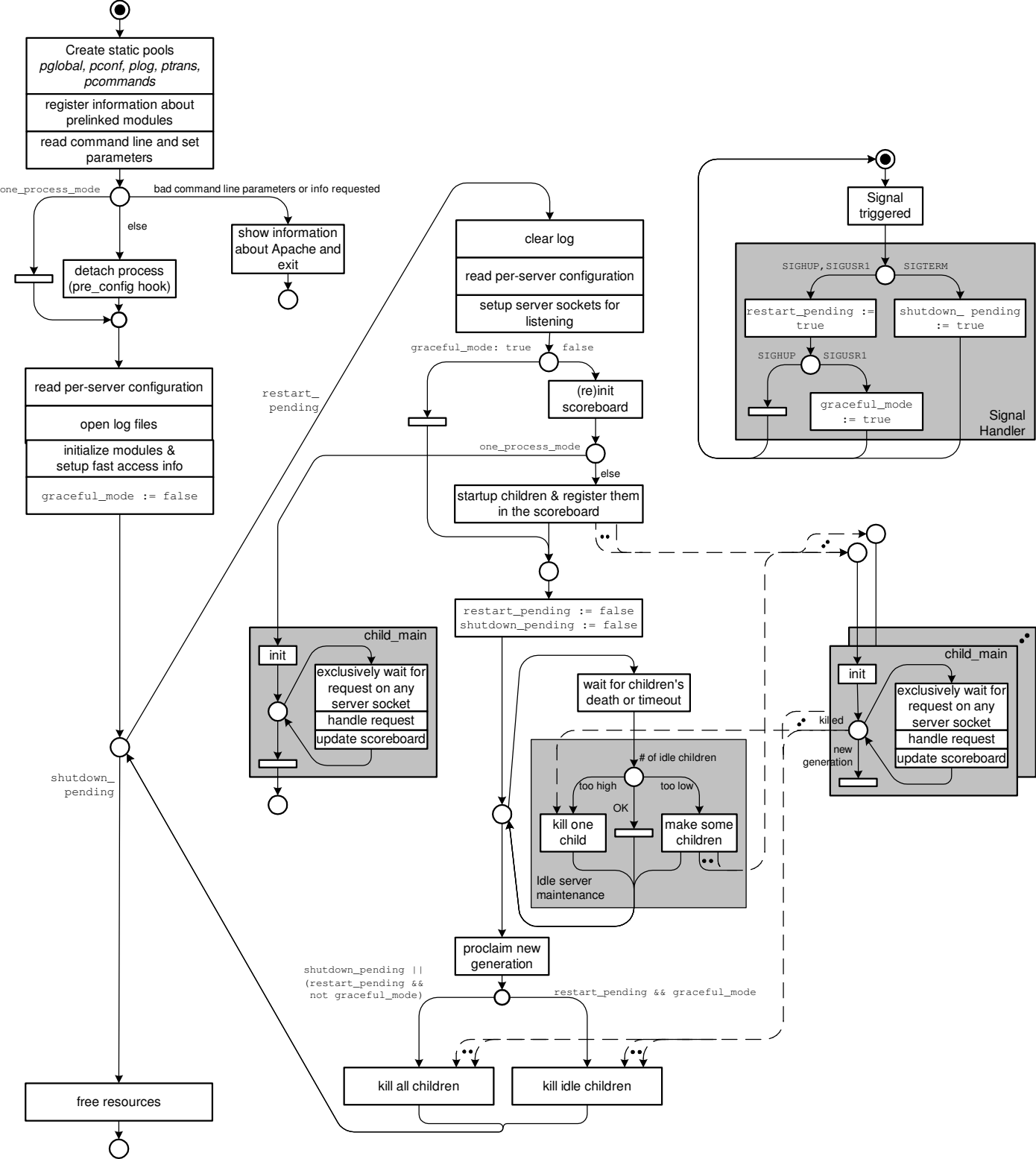
Create static pools
pglobal, pconf, plog, ptrans, pcommands
register information about prelinked modules
read command line and set parameters
one_process_mode
bad command line parameters or info requested
else
show information about Apache and exit
detach process (pre_config hook)
read per-server configuration
open log files
initialize modules & setup fast access info
graceful_mode := false
restart_ pending
shutdown_ pending
free resources
clear log
read per-server configuration
setup server sockets for listening
graceful_mode: true
false
(re)init scoreboard
one_process_mode
else
startup children & register them in the scoreboard
restart_pending := false
shutdown_pending := false
wait for children's death or timeout
# of idle children
too high
too low
OK
kill one child
make some children
Idle server maintenance
proclaim new generation
shutdown_pending || (restart_pending && not graceful_mode)
restart_pending && graceful_mode
kill all children
kill idle children
child_main
init
exclusively wait for request on any server socket
handle request
update scoreboard
child_main
init
exclusively wait for request on any server socket
handle request
update scoreboard
killed
new generation
Signal triggered
SIGHUP,SIGUSR1
SIGTERM
restart_pending := true
shutdown_ pending := true
SIGHUP
SIGUSR1
graceful_mode := true
Signal Handler