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To do test I did:
Math function with no operand
Math function with one result operand
Math function with one variable operand
Math function with two variable operands
del function with variable in the hashtable
del function without variable in the hashtable
Load some variables into the hash table, clear the hash table, dump the hash table, then return the file size.
rpcserver takes -H and -N in argument
Implement multithreading then repeat the same tests

Which parts of the server can run in parallel? About what fraction of the time must a thread doing a math problem with three variables run inside a critical section? How does this impact parallelism?
Access hash table for variable value. Depends on the thread list. If all threads in a threads list is available, 90% of the time is inside a critical section. Otherwise, time for waiting entering the critical section will increase. It won't.

Does your multithreaded design return a response to an individual client faster, slower, or at the same speed?Justify your answer.
At the same speed. There's no parallel in a single thread.