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1. If the host system has two virtual processors, the actual lower bound **would be** **1000** and the upper bound on the final value of the shared variable sum output **would be 2000.** This is because the OpenMP compiler directive runs the associated block of code in the given number of threads, which in this case, is 2.
2. Given **N virtual processors,** the effect of this modification wouldn’t alter the lower bound- this would remain 1000. On the other hand, the **upper bound is changed to reflect the number of processors,** which in this case, is n. As such, the upper bound is changed to **1000N,** which is the lower bound multiplied by the number of processors available.