

ABSTRACT

A computer system and associated method for executing a plurality of threads of execution with reduced memory space requirements. The
5 computer system comprises a memory, an execution controller, and a data compressor. The execution controller controls execution of the threads such that the threads are executable and unexecutable at different times. The execution controller also stores uncompressed into available space in the run-time memory execution data of the threads when the execution data is
10 generated. The data compressor compresses the uncompressed execution data of compressible ones of the threads that are unexecutable. As a result, space is made available in the run-time memory. The data compressor also decompresses in available space in the run-time memory the compressed execution data of decompressible ones of the threads so that the
15 decompressible ones of the threads may be executed after becoming executable.

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