Counting lattice paths that have steps of size one or two. Preliminary report.

A recurrence relation is developed for counting lattice paths on \{0,1,2,3,4,\ldots\} that generally move up or down in step sizes of one or two (except at state 0 which has only upward steps and state 1 where only downward steps of size one are allowed in addition to possible upward steps of size one or two). This result has applications to determining transient probabilities of queueing systems that have the same sample path structure. (Received September 10, 2013)