Figure 1: Gantt plot visualization of task distribution over 4 slave nodes, each with 16 available cores. Tasks are denoted by horizontal lines, and the shaded regions show tasks managed by a single, common executor. The numbers running horizontally at the top denote the stage number, as formed in the execution graph. Stages 0 and 2 consist of the random initialization of two block vector RDDs, v_1 and v_2, while stages 1 and 3 are the materializations of those vectors, respectively, triggered by a count operation. Stages 6 though 15, inclusive, consist of materializing the vector $v_1 + v_2$ via a join operation. The block size was 2^{16}, with $\alpha = 4$ partitions per core and $\gamma = 4$ blocks per partition.