Mathematical language	English File language	ZL Picture File language
$[e^{i\sum_{b1,b0}\theta_{b_1 b_0} P_{b_1 b_0}(2,1)}]n(0)$ where $\theta_{b_1 b_0}$ same as for `MP_Y`	`DIAG IF 2:1 1:0 OT BY 30.0 10.5 11.0 83.1`	`|    %---%---@`
$H(1)^{\overline{n}(3)n(2)}$	`HAD2 AT 1 IF 3F 2T`	`O---@---H   |`
Begin "if measured" block of gates, execute block if measured that qubit 3 is False and 2 is True	`IF_M( 3F 2T ){`	`IF_M( 3F 2T ){`
End "if measured" block of gates	`}IF_M`	`}IF_M`
Loop named 5 with 2 repetitions	`LOOP 5 REPS: 2`	`LOOP 5 REPS:2`
Measure $\overline{n} = P_0 = \|0\rangle\langle 0\|$ at qubit 1	`MEAS 0 AT 1`	`|   |   M0   |`
Measure $n = P_1 = \|1\rangle\langle 1\|$ at qubit 1	`MEAS 1 AT 1`	`|   |   M1   |`
Measure both $\|0\rangle\langle 0\|$ and $\|1\rangle\langle 1\|$ at qubit 1 New state is mixture.	`MEAS 2 AT 1`	`|   |   M   |`
$[e^{i\sum_{b1,b0}\theta_{b_1 b_0}\sigma_Y(3) P_{b_1 b_0}(2,1)}]n(0)$ where $P_{b1,b0} = P_{b1}P_{b0}$ and $\begin{cases}\theta_{00}=30.0(\frac{\pi}{180})\\\theta_{01}=10.5(\frac{\pi}{180})\\\theta_{10}=11.0(\frac{\pi}{180})\\\theta_{11}=83.1(\frac{\pi}{180})\end{cases}$	`MP_Y AT 3 IF 2:1 1:0 OT BY 30.0 10.5 11.0 83.1`	`|   Ry--%---%---@`
Next iteration of loop named 5	`NEXT 5`	`NEXT 5`
A one line comment	`NOTA  bla, bla, bla`	`NOTA  bla, bla, bla`
$e^{i42.7\frac{\pi}{180}\overline{n}(3)n(2)}$	`PHAS 42.7 IF 3F 2T`	`O---@---+--Ph`
$e^{i42.7\frac{\pi}{180}\overline{n}(3)n(2)}$	`POPH 42.7 AT 3 IF 2T`	`OP--@   |   |`
Simulator prints the current state vec in style V1	`PRINT  V1`	`PRINT  V1`
$e^{i42.7\frac{\pi}{180}n(3)n(2)}$	`P1PH 42.7 AT 3 IF 2T`	`@P--@   |   |`
$(e^{i\frac{\pi}{180}23.7\sigma_X(1)})^{\overline{n}(3)n(2)}$	`ROTX 23.7 AT 1 IF 3F 2T`	`O---@---Rx  |`
$(e^{i\frac{\pi}{180}23.7\sigma_Y(1)})^{\overline{n}(3)n(2)}$	`ROTY 23.7 AT 1 IF 3F 2T`	`O---@---Ry  |`
$(e^{i\frac{\pi}{180}23.7\sigma_Z(1)})^{\overline{n}(3)n(2)}$	`ROTZ 23.7 AT 1 IF 3F 2T`	`O---@---Rz  |`
$(e^{i\frac{\pi}{180}[30\sigma_X(1)+40\sigma_Y(1)+11\sigma_Z(1)]})^{\overline{n}(3)n(2)}$	`ROTN 30.0 40.0 11.0 AT 1 IF 3F 2T`	`O---@---R   |`
$\sigma_X(1)^{\overline{n}(3)n(2)}$	`SIGX AT 1 IF 3F 2T`	`O---@---X   |`
$\sigma_Y(1)^{\overline{n}(3)n(2)}$	`SIGY AT 1 IF 3F 2T`	`O---@---Y   |`
$\sigma_Z(1)^{\overline{n}(3)n(2)}$	`SIGZ AT 1 IF 3F 2T`	`O---@---Z   |`
$E(1,0)^{\overline{n}(3)n(2)}$	`SWAP 1 0 IF 3F 2T`	`O---@---<--->`