Mathematical language	English File language	ZL Picture File language
$[e^{i\sum_{b1,b0}\theta_{b_1b_0}P_{b_1b_0}(2,1)}]^{n(0)}$ where $\theta_{b_1b_0}$ same as for MP_Y	DIAG IF 2:1 1:0 0T BY 30.0 10.5 11.0 83.1	| %---%---@
$H(1)^{\overline{n}(3)n(2)}$	HAD2 AT 1 IF 3F 2T	0---@---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 NREPS= 2	LOOP 5 NREPS= 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 |
$[e^{i\sum_{b1,b0}\theta_{b_1b_0}\sigma_Y(3)P_{b_1b_0}(2,1)}]^{n(0)}$ 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 0T 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
$e^{i42.7\frac{\pi}{180}\overline{n}(3)n(2)}$	P0PH 42.7 AT 3 IF 2T	0P--@ | |
$e^{i42.7\frac{\pi}{180}n(3)n(2)}$	P1PH 42.7 AT 3 IF 2T	@P--@ | |
$e^{i42.7\frac{\pi}{180}\overline{n}(3)n(2)}$	PHAS 42.7 AT 0 IF 3F 2T	0---@---+--Ph
Simulator prints the current state vec in style V1	PRINT V1	PRINT V1
$(e^{i\frac{\pi}{180}23.7\sigma_X(1)})^{\overline{n}(3)n(2)}$	ROTX 23.7 AT 1 IF 3F 2T	0---@---Rx |
$(e^{i\frac{\pi}{180}23.7\sigma_Y(1)})^{\overline{n}(3)n(2)}$	ROTY 23.7 AT 1 IF 3F 2T	0---@---Ry |
$(e^{i\frac{\pi}{180}23.7\sigma_Z(1)})^{\overline{n}(3)n(2)}$	ROTZ 23.7 AT 1 IF 3F 2T	0---@---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	0---@---R |
$\sigma_X(1)^{\overline{n}(3)n(2)}$	SIGX AT 1 IF 3F 2T	0---@---X |
$\sigma_Y(1)^{\overline{n}(3)n(2)}$	SIGY AT 1 IF 3F 2T	0---@---Y |
$\sigma_Z(1)^{\overline{n}(3)n(2)}$	SIGZ AT 1 IF 3F 2T	0---@---Z |
$SWAP(1,0)^{\overline{n}(3)n(2)}$ where $SWAP=diag(1,\sigma_X,1)$	SWAP 1 0 IF 3F 2T	0---@---<--->
$diag(1,U2,1)(1,0)^{\overline{n}(3)n(2)}$ where $U2=e^{i\frac{\pi}{180}[5+30\sigma_X]}$	SWAY 1 0 BY 5.0 30.0 IF 3F 2T	0---@---<<->>
$(e^{i\frac{\pi}{180}[5+30\sigma_X(1)+40\sigma_Y(1)+11\sigma_Z(1)]})^{\overline{n}(3)n(2)}$	U_2_ 5.0 30.0 40.0 11.0 AT 1 IF 3F 2T	0---@---U |