Mathematical language	English File language	ZL Picture File language
$e^{i\sum_{b1,b0}\theta_{b_1b_0}P_{b_1b_0}(2,1)}n^{(0)}$	DIAG IF 2:1 1:0 OT BY 30.0 10.5 11.0 83.1	%%@
where $\theta_{b_1b_0}$ same as for MP_Y		
$H(1)^{\overline{n}(3)n(2)}$	HAD2 AT 1 IF 3F 2T	O@H
Begin "if measured" block of gates, execute block	IF_M( 3F 2T ){	IF_M( 3F 2T ){
if measured that qubit 3 is False and 2 is True		
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 O AT 1	I I MO I
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	MEAS 2 AT 1	M
New state is mixture.		
$e^{i\sum_{b1,b0}\theta_{b_1b_0}\sigma_Y(3)P_{b_1b_0}(2,1)} n(0)$	MP_Y AT 3 IF 2:1 1:0 OT BY 30.0 10.5 11.0 83.1	Ry%@
where $P_{b1,b0} = P_{b1}P_{b0}$ and $\begin{cases} \theta_{00} = 30.0(\frac{\pi}{180}) \\ \theta_{01} = 10.5(\frac{\pi}{180}) \\ \theta_{10} = 11.0(\frac{\pi}{180}) \\ \theta_{11} = 83.1(\frac{\pi}{180}) \end{cases}$		·
Next iteration of loop named 5	NEXT 5	NEXT 5
A one line comment	NOTA bla, bla, bla	NOTA bla, bla, bla
$e^{i42.7\frac{\pi}{180}\overline{n}(3)n(2)}$	POPH 42.7 AT 3 IF 2T	OP@
$e^{i42.7\frac{\pi}{180}n(3)n(2)}$	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@>
$diag(1,U2,1)(1,0)^{\overline{n}(3)n(2)}$	SWAY 1 0 BY 5.0 30.0 IF 3F 2T	0@<<->>
where $U2=e^{i\frac{\pi}{180}[5+30\sigma_X]}$		
$ (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