

Table 4.1

The functionality
of the 74381
ALU.

Operation	Inputs			Outputs			
	s_2	s_1	s_0	F			
Clear	0	0	0	0	0	0	0
$B - A$	0	0	1	$B - A$			
$A - B$	0	1	0	$A - B$			
ADD	0	1	1	$A + B$			
XOR	1	0	0	$A \text{ XOR } B$			
OR	1	0	1	$A \text{ OR } B$			
AND	1	1	0	$A \text{ AND } B$			
Preset	1	1	1	1	1	1	1