Instruction	Syntax	Semantics
Assign	%name = assign() : <i32></i32>	Put the immediate value <i32> in variable %name</i32>
Add	%result = add(%op1, %op2)	Add the values of variables %op1 and %op2 and store the result in variable %result
Subtract	%result = sub(%op1, %op2)	Subtract the value of variable %op2 from the value of variable %op1 and store the result in variable %result
Multiply constant	<pre>%result = mult_const(%op) : <i32></i32></pre>	Multiply the value of variable %op with the immediate <i32> and store the result in %result</i32>
Bit-conditional multiply constant	<pre>%result = bcond_mult_const(%op1, %op2) : <i32></i32></pre>	 If %op2 is 0, do nothing If %op2 is 1, multiply the value of variable %op1 with the immediate <i32> and store the result in %result</i32> If %op2 is any other value, Undefined Behavior
Jump	jump(): #name	Jump to the Block with name #name
Branch if equal	beq(%op1, %op2) : #name	Jump to the Block with name #name only if the values of variables %op1 and %op2 are equal
Branch if not equal	bne(%op1, %op2) : #name	Jump to the Block with name #name only if the values of variables %op1 and %op2 are not equal
Branch if greather than	bgt(%op1, %op2) : #name	Jump to the Block with name #name only if the value of variable %op1 is greater than the value of variable %op2
Branch if less than	blt(%op1, %op2) : #name	Jump to the Block with name #name only if the value of variable %op1 is less than the value of variable %op2
Send message	send_msg(%csck, %op)	Send the value in variable %op over the classical socket to another node
Receive message	%msg = recv_msg(%csck)	Block and wait until a message is received over the classical socket and store its value in the variable %msg
Run Local Routine	%result = run_routine(%args) : #name	Run the Local Routine named #name with arguments %args and store results in %result
Run Request Routine	<pre>%result = run_request(%args) : #name</pre>	Run the Request Routine named #name with arguments %args and store result in %result
Submit Routines	<pre>submit_routines(%args) : [#name]</pre>	Submit a batch of Local and/or Request Routines with names [#name] for execution, with arguments %args
Join on Routine results	%results = join_routines() : [#name]	Block until the results are available for all Local and/or Request Routines with names [#name] and store the results in %results