

## Burroughs 220 "Subroutine Call and Return" (p. 397)

### Main Execution

42	STP	"exit"
43	BUN	"entrance"
44		

1. store IP 43 + 1  
into "exit"

2. jump to "entrance"

3. jump back to 44

### Subroutine

"entrance"		
"exit"	BUN	44

### Legend – 1 Instruction

Address	Operation	Target Address
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Control Flow

## Burroughs 220 "Coroutine Call and Reentry" (p. 398)

### Coroutine A

"arouter"	BUN	44
42	STP	"arouter"
43	BUN	"brouter"
44		

3. jump where coroutine "b" left last time

1. store IP 43 + 1 into "arouter" to continue when called back

2. jump to coroutine "b"

4. jump back to router of coroutine "a" which then jumps to 44 to continue where it left

### Coroutine B

"brouter"	BUN	<initial value>
	STP	"brouter"
	BUN	"arouter"

### Legend – 1 Instruction

Address	Operation	Target Address
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Control Flow