

Samuel Carroll
CptS 464
Project 2
May 2nd, 2019

Notes: I attempted to use the grep command to remove rti content, but in doing so it ended up not displaying anything to the screen so that is why some of these may show the rti text in them. I removed those from the cleaned up result files which are included in my zip with this assignment. Also if you notice my times between stops are always whole numbers, this is because the idl prompts set the timebetweenstops value as long which didn't allow me to use decimals so I ended up using whole numbers for that value, but ensured it never got to 0 seconds from light traffic dropping it by setting its minimum allowed to 1.

Passenger 1 Image:

```
[Sams-MacBook-Pro:p2 samcarroll$ ./objs/x64Darwin17clang9.0/PassengerSubscriber Express2 4 3
Waiting for the bus...
RTI Data Distribution Service Nonprofit License issued to Washington State University (WSU02-UP) ... For non-production use only.
Expires on 30-jun-2019 See www.rti.com for more information.
RTI Data Distribution Service Nonprofit License issued to Washington State University (WSU02-UP) ... For non-production use only.
Expires on 30-jun-2019 See www.rti.com for more information.
Getting on Bus21 at 12:19:20, normal, 5 stops left
Arriving at stop #5, at 12:19:23, normal, 4 stops remaining
Arriving at stop #6, at 12:19:26, normal, 3 stops remaining
Arriving at stop #1, at 12:19:29, normal, 2 stops remaining
Arriving at stop #2, at 12:19:32, normal, 1 stops remaining
Arriving at stop #2, at 12:19:32, Accident, 1 stops remaining
Arriving at destination by Bus21 at 12:19:45
Sams-MacBook-Pro:p2 samcarroll$
```

Passenger 2 image:

```
[Sams-MacBook-Pro:p2 samcarroll$ ./objs/x64Darwin17clang9.0/PassengerSubscriber E]
xpress1 3 2
Waiting for the bus...
RTI Data Distribution Service Nonprofit License issued to Washington State Unive
rsity (WSU02-UP) ... For non-production use only.
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RTI Data Distribution Service Nonprofit License issued to Washington State Unive
rsity (WSU02-UP) ... For non-production use only.
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Getting on Bus11 at 12:19:16, light, 3 stops left
Arriving at stop #4, at 12:19:17, normal, 2 stops remaining
Arriving at stop #1, at 12:19:19, normal, 1 stops remaining
Arriving at destination by Bus11 at 12:19:21
Sams-MacBook-Pro:p2 samcarroll$
```

Publisher thread image:

```
P3464_SCARROLL: Bus21 published a position message at stop #2 on route Express2
at 12:20:00
P3464_SCARROLL: Bus22 published a position message at stop #5 on route Express2
at 12:20:02
P3464_SCARROLL: Bus23 published a position message at stop #5 on route Express2
at 12:20:03
P3464_SCARROLL: Bus21 published a position message at stop #3 on route Express2
at 12:20:03
P3464_SCARROLL: Bus22 published a position message at stop #6 on route Express2
at 12:20:05
P3464_SCARROLL: Bus23 published a position message at stop #6 on route Express2
at 12:20:05
P3464_SCARROLL: Bus23 published a position message at stop #1 on route Express2
at 12:20:06
P3464_SCARROLL: Bus21 published a position message at stop #4 on route Express2
at 12:20:06
P3464_SCARROLL: Bus23 published a position message at stop #2 on route Express2
at 12:20:07
P3464_SCARROLL: Bus22 published a position message at stop #1 on route Express2
at 12:20:08
P3464_SCARROLL: Bus21 published a position message at stop #5 on route Express2
at 12:20:09
```

Operator Image:

```
[Sams-MacBook-Pro:p2 samcarroll$ ./objs/x64Darwin17clang9.0/OperatorSubscriber
Waiting for the bus...
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Expires on 30-jun-2019 See www.rti.com for more information.
```

MessageType	Route	Vehicle	Traffic	Stop#	#Stops	TimeBetweenStops	Fill%	Timestamp
Accident	Express1	Bus12		1				12:19:14
Position	Express1	Bus11	light	2	4	1	73	12:19:15
Position	Express2	Bus22	normal	2	6	3	19	12:19:16
Position	Express1	Bus11	light	3	4	1	39	12:19:16
Position	Express1	Bus13	light	2	4	1	68	12:19:16
Position	Express1	Bus11	normal	4	4	2	65	12:19:17
Position	Express1	Bus13	normal	3	4	2	52	12:19:17
Position	Express2	Bus21	light	2	6	2	87	12:19:17
Position	Express2	Bus22	light	3	6	2	78	12:19:19
Position	Express1	Bus11	normal	1	4	2	53	12:19:19
Position	Express1	Bus13	normal	4	4	2	87	12:19:19
Position	Express2	Bus21	light	3	6	1	58	12:19:19
Position	Express2	Bus21	normal	4	6	3	30	12:19:20
Position	Express2	Bus22	normal	4	6	3	43	12:19:21
Position	Express1	Bus11	normal	2	4	2	0	12:19:21
Position	Express1	Bus13	normal	1	4	2	4	12:19:21
Position	Express1	Bus11	normal	3	4	2	38	12:19:23
Position	Express1	Bus13	light	2	4	1	64	12:19:23
Position	Express2	Bus21	normal	5	6	3	29	12:19:23
Position	Express2	Bus22	normal	5	6	3	95	12:19:24
Position	Express1	Bus13	heavy	3	4	2	3	12:19:24
Position	Express1	Bus11	normal	4	4	2	92	12:19:25
Position	Express2	Bus23	normal	2	6	3	25	12:19:26
Position	Express1	Bus13	normal	4	4	2	24	12:19:26
Position	Express1	Bus12	light	2	4	1	92	12:19:26
Position	Express2	Bus21	normal	6	6	3	2	12:19:26
Accident	Express2	Bus22		6				12:19:27
Position	Express2	Bus22	normal	6	6	3	79	12:19:27
Position	Express1	Bus11	light	1	4	1	69	12:19:27
Accident	Express1	Bus11		1				12:19:27
Position	Express1	Bus12	light	3	4	1	59	12:19:27
Position	Express1	Bus13	normal	1	4	2	11	12:19:28
Position	Express1	Bus12	heavy	4	4	2	93	12:19:28
Position	Express2	Bus23	normal	3	6	3	36	12:19:29
Position	Express2	Bus21	normal	1	6	3	43	12:19:29
Position	Express1	Bus13	heavy	2	4	3	34	12:19:30
Position	Express1	Bus12	light	1	4	1	47	12:19:30
Position	Express1	Bus12	light	2	4	1	51	12:19:31