

ATKINS

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'Borough' Group Statistics

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Presentation to SATURN User Group Meeting

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Atkins Limited

Group Statistics (i) - Overview

Currently, assignment statistics can be automatically generated during the assignment process broken down by capacity index, BYCC=T

These can be replaced by Borough Statistics, using the alternative: BYBORO=T

The allocation data to the boroughs is undertaken by allocating nodes to the borough; turn delays etc encountered at the node and all travel time/distance on links entering the node (i.e. with "B-node") are aggregated to give the statistics.

Date (if applicable) Presentation Title

Group Statistics (ii) - Allocating

If the node numbering strictly follows the TfL conventions, the borough can be deduced directly from the node number and the option TFL=T

Alternatively, a "Node to Group" (.N2G) file can be given that is a list of nodes and corresponding "borough" or group (analogous to a .Z2S file for defining "Zones to Sectors")

Note: If a node is unallocated (or its borough cannot be deduced using TFL=T), it will be aggregated into a "dummy" group/borough "0".

Date (if applicable) Presentation Title

Group Statistics (iii) - Generating

The automatically generated statistics may be printed out using "Option 4" in SATLOOK.

However, "Option 5" can be used to generate an alternative grouping using a different "Node to Group" (.N2G) file from the original set up.

Further development work for "Link to Group" (.L2G) file

- A more efficient process than currently available

Date (if applicable) Presentation Title

Group Statistics (iv) - Output

Extract using BYBORO=T, TFL=T

TOTAL FLOWS - LINKS W	ITH TfL	borough =	1 City of	London		
TRANSIENT QUEUES	=	694.3	47.5	741.8	PCU. HRS.	
OVER-CAPACITY QUEUES	S =	235.1	55.8	290.9	PCU. HRS.	
LINK: FREE FLOW TIME	Ξ =	539.8	25.8	565.5	PCU. HRS.	
DELAYS	=	8.1	0.8	8.9	PCU. HRS.	
CRUISE TIME	=	547.9	26.6	574.5	PCU. HRS.	
TOTAL TRAVEL TIME	=	1477.3	129.9	1607.2	PCU. HRS.	
TRAVEL DISTANCE	=	15670.8	786.9	16457.7	PCU. KMS.	
OVERALL AVERAGE SPEE	ED =	10.6	6.1	10.2	КРН	
FUEL CONSUMPTION	=	3039.3	217.9	3257.2	LITRES	
TOTAL FLOWS - LINKS WITH TfL borough = 2 Westminster						
TRANSIENT QUEUES so on	=	1945.3	65.3	2010.7	PCU. HRS.	and

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