

IntControl - Quick Reference

Version 5.0.1



Usage

IntControl [-flag] [control_file]

Optional Flags:

- Q[uiet] = execute without screen messages
- H[elp] = show program syntax and control keys
- C[ontrol] = create/update a default control file
- K[eyCheck] = list unrecognized control file keys
- P[ause] = pause before exiting
- N[oPause] = never pause before exiting
- D[etail] = execute with detailed status messages
- X[ML] = write an XML file with control keys

Purpose

1. Synthesize TRANSIMS sign and signal data from location lists.
2. Delete signs or signal records from an existing set of TRANSIMS traffic control files.
3. Append new signs and signals to an existing set of TRANSIMS traffic control files.
4. Update the signal timing plans for selected locations and time periods based on turning movements or link delay data.

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
TITLE	Text		
REPORT_FILE	File		filename[_partition][.prn]
REPORT_FLAG	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
PROJECT_DIRECTORY	Path		
MODEL_START_TIME	Time	0:00	>= 0 [seconds], 0.0 [hours], 0:00
MODEL_END_TIME	Time	24:00	> [model_start_time]
UNITS_OF_MEASURE	Text	METRIC	METRIC, ENGLISH
RANDOM_NUMBER_SEED	Int.	0	0 = computer clock, > 0 = fixed
MAX_WARNING_MESSAGES	Int.	100000	>= 0
MAX_WARNING_EXIT_FLAG	Bool	TRUE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
MAX_PROBLEM_COUNT	Int.	0	>= 0

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
NUMBER_OF_THREADS	Int.	1	1..24
INTCONTROL_REPORT_*	Text		program report name

System File Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
<input checked="" type="checkbox"/> NODE_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> LINK_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> POCKET_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> CONNECTION_FILE	File		[project_directory]filename
SHAPE_FILE	File		[project_directory]filename
LANE_USE_FILE	File		[project_directory]filename
SIGN_FILE	File		[project_directory]filename
SIGNAL_FILE	File		[project_directory]filename
PHASING_PLAN_FILE	File		[project_directory]filename
TIMING_PLAN_FILE	File		[project_directory]filename
DETECTOR_FILE	File		[project_directory]filename
LINK_DELAY_FILE	File		[project_directory]filename
NEW_SIGN_FILE	File		[project_directory]filename
NEW_SIGNAL_FILE	File		[project_directory]filename
NEW_PHASING_PLAN_FILE	File		[project_directory]filename
NEW_TIMING_PLAN_FILE	File		[project_directory]filename
NEW_DETECTOR_FILE	File		[project_directory]filename

File Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
NOTES_AND_NAME_FIELDS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

Data Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
DAILY_WRAP_FLAG	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
SUMMARY_TIME_RANGES	Text	ALL	e.g., ALL, 0..97200 seconds, 0.0..27.0 hours, 0:00..27:00
SUMMARY_TIME_INCREMENT	Time	15 minutes	0, 2..240 minutes

Control Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
INPUT_SIGN_FILE	File		[project_directory]filename
INPUT_SIGNAL_FILE	File		[project_directory]filename
DELETE_NODE_CONTROL_FILE	File		[project_directory]filename
PRINT_SIGN_WARNINGS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
PRINT_MERGE_WARNINGS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
SIGNAL_TYPE_CODE_*	List	TIMED	TIMED or ACTUATED
NUMBER_OF_RINGS_*	List	1	1..4
SIGNAL_TIME_BREAKS_*	List	NONE	e.g., NONE, 6:00, 10:00, 16:00
SIGNAL_CYCLE_LENGTH_*	List	60 seconds	30..360 seconds
MINIMUM_PHASE_TIME_*	List	5 seconds	0..30 seconds
YELLOW_PHASE_TIME_*	List	3 seconds	0..6 seconds
RED_CLEAR_PHASE_TIME_*	List	0 seconds	0..4 seconds
SIGNAL_DETECTOR_LENGTH_*	Dec.	20 meters	5..50 meters
POCKET_LANE_FACTOR_*	List	0.5	0.2..1.0
SHARED_LANE_FACTOR_*	List	0.5	0.2..1.0
TURN_MOVEMENT_FACTOR_*	List	0.9	0.2..1.0
PERMITTED_LEFT_FACTOR_*	List	0.5	0.2..1.0
GENERAL_GREEN_FACTOR_*	List	1.0	0.7..1.0
EXTENDED_GREEN_FACTOR_*	List	0.5	0.1..1.0
MAXIMUM_GREEN_FACTOR_*	List	2.0	0.2..10.0
SIGNAL_SPLIT_METHOD_*	List	CAPACITY	LANES, CAPACITY, VOLUME, UPDATE

Control Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
MINIMUM_LANE_CAPACITY_*	Int.	500	0..1000 vphpl
MAXIMUM_LANE_CAPACITY_*	Int.	1500	100..3000 vphpl
TURN_VOLUME_FILE	File		[project_directory]filename

Notes

Each '_FILE' key has a corresponding '_FORMAT' key. The following file formats can be used for input and output files.
TEXT, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, SQLITE3, VERSION3