

FOA

- Calculations
 - Volume
 - TOBT Quality
 - Misconnex
 - Arrival Punctuality
 - Departure Punctuality
 - Seat Load Factor
 - Booking Load Factor
 - Regularity
 - Boarding Time
 - Boarding Time Update
 - Delay
 - MBI

Calculations

Volume

Input

Name	Type	Index
flights	Array<Object>	0
options	Object	1

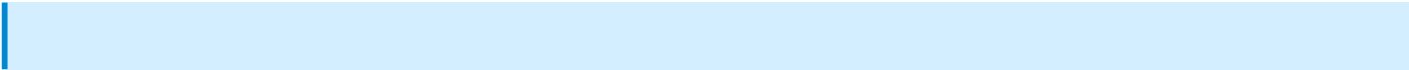
Options

Option	Values	Default	Requirements
onlyAirborne	true, false	false	times.general.atd (Set: atd)

Requirements

- passengers.onboard.wab.total
- baggage.loaded.wab.amount
- passengers.booked.storm.total
- passengers.capacity.actual.total
- route.destination
- route.origin

> Set: Volume



Output

Field	Type
passengers	Int
flights	Int
baggages	Int
capacity	Int
booked	Int
destinations	Int
origins	Int
seat_load_factor	Double
booking_factor	Double

TOBT Quality

Input

Name	Type	Index
flights	Array<Object>	0
options	Object	1

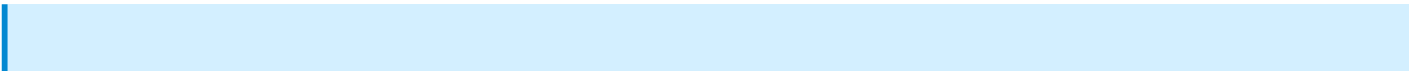
Options

Option	Values	Default	Requirements
trend_day	true, false	false	
trend_hour	true, false	false	
flights	true, false	false	

Requirements

- times.general.atd
- times.general.adc
- times.general.tobt
- times.startup.given

> Set: TOBT



Output

Field	Type
stats	days
	Array<TOBT Object>
	hours
	Array<TOBT Object>
flights	total
	TOBT Object
Array<Object>	

TOBT Object

Field	Type
ontime	Int
offtime	Int
unrated	Int
uncomplete	Int
quality	Double
rated	Double
dataquality	Double

Misconnex

Input

Name	Type	Index
flights	Array<Object>	0
options	Object	1

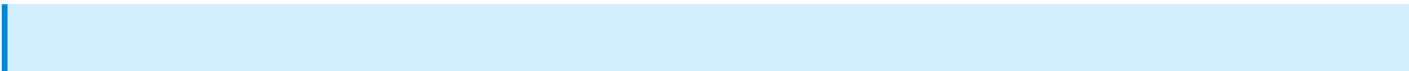
Options

Option	Values	Default	Requirements
trend_day	true, false	false	
trend_hour	true, false	false	
flights	true, false	false	

Requirements

- times.general.atd
- times.general.adc
- times.general.tobt
- times.startup.given

> Set: TOBT



Output

Field	Type
stats	days
	Array<TOBT Object>
	hours
	Array<TOBT Object>
flights	total
	TOBT Object
Array<Object>	

TOBT Object

Field	Type
ontime	Int
offtime	Int
unrated	Int
uncomplete	Int
quality	Double
rated	Double
dataquality	Double

Arrival Punctuality

Input

Name	Type	Index
flights	Array<Object>	0
options	Object	1

Options

Option	Values	Default	Requirements
flights	true, false	false	
minutes	Int	3	

Requirements

- times.general.ata
- times.general.finalSta

> Set: arrival_punctuality

Output

Field	Type	
stats	ontime	Int
	offtime	Int
	punctuality	Double
flights	ontime	Array<Flight>
	offtime	Array<Flight>

Departure Punctuality

Input

Name	Type	Index
flights	Array<Object>	0
options	Object	1

Options

Option	Values	Default	Requirements
flights	true, false	false	
minutes	Int	15	

Requirements

- times.general.atd
 - times.general.finalStd
- > Set: departure_punctuality

Output

Field	Type	
stats	ontime	Int
	offtime	Int
	punctuality	Double
flights	ontime	Array<Flight>
	offtime	Array<Flight>

Seat Load Factor

Input

Name	Type	Index
flights	Array<Object>	0
options	Object	1

Options

Option	Values	Default	Requirements
flights	true, false	false	

Requirements

- passengers.onboard.wab.first
 - passengers.onboard.wab.business
 - passengers.onboard.wab.premium_economy
 - passengers.onboard.wab.economy
 - passengers.onboard.wab.total
 - passengers.capacity.actual.first
 - passengers.capacity.actual.business
 - passengers.capacity.actual.premium_economy
 - passengers.capacity.actual.economy
- > Set: passengers

Output

Field	Type
stats	F
	Seat Load Factor Object
	C
	Seat Load Factor Object
	E
	Seat Load Factor Object
	M
	Seat Load Factor Object
flights	Array<Flight>

Seat Load Factor Object

Field	Type
passengers	Int
capacity	Int
seat_load_factor	Double

Booking Load Factor

Input

Name	Type	Index
flights	Array<Object>	0
options	Object	1

Options

Option	Values	Default	Requirements
flights	true, false	false	

Requirements

- passengers.booked.storm.first
 - passengers.booked.storm.business
 - passengers.booked.storm.premium_economy
 - passengers.booked.storm.economy
 - passengers.booked.storm.total
 - passengers.capacity.actual.first
 - passengers.capacity.actual.business
 - passengers.capacity.actual.premium_economy
 - passengers.capacity.actual.economy
- > Set: passengers

Output

Field	Type
stats	F
	Booking Load Factor Object
	C
	Booking Load Factor Object
	E
	Booking Load Factor Object
	M
	Booking Load Factor Object
flights	Array<Flight>

Booking Load Factor Object

Field	Type
passengers	Int
capacity	Int
booking_load_factor	Double

Regularity

Input

Name	Type	Index
options	Object	0
flights_a	Array<Flight>	1
flights_b	Array<Flight>	2

Options

Option	Values	Default	Requirements
unit	m, h, d	d	
value	Int	7	

Requirements

- times.cancellation_time
- times.general.finalStd
- passengers.booked.storm.total

> Set: Regularity

Output

Field	Type
cancelled	Int
not_cancelled	Int
passengers	Int
total	Int
regularity	Double

Boarding Time

Input

Name	Type	Index
options	Object	0
flights_a	Array<Flight>	1
flights_b	Array<Flight>	2

Options

Option	Values	Default	Requirements
--------	--------	---------	--------------

Requirements

- processes.boarding.begin.actual
- times.general.adc
- passengers.onboard.wab.total

> Set: boarding_time

Output

Field	Type
passengers	Int
time	Int
average_boarding_time	Double

Boarding Time Update

Input

Name	Type	Index
flights	Array<Flight>	0
options	Object	1

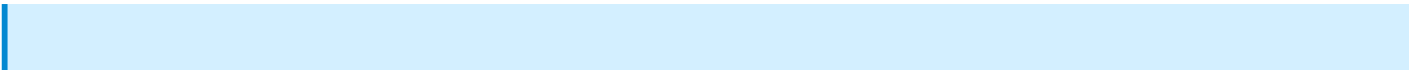
Options

Option	Values	Default	Requirements
flights	true, false	true	

Requirements

- btu.unclear
- btu.reasons

> Set: btu



Output

Field	Type	
stats	total	Int
	reasons	Object
	minus_volume	Volume
	plus_volume	Volume
	minus_d15	Departure Punctuality
	plus_d15	Departure Punctuality
flights	minus	Array<Flight>
	plus	Array<Flight>

Delay

Input

Name	Type	Index
flights	Array<Flight>	0
options	Object	1

Options

Option	Values	Default	Requirements
flights	true, false	true	

Requirements

- delays.delay_code
 - delays.sub_delay_code
 - delays.delay
 - delays.comment
 - leg_id
 - times
 - flags
 - flight
- > Set: flags, flight, times

Output

Field	Type
stats	delays
	Map of Delay Objects
	subdelays
	Map of Delay Objects
	groups
	atc
	Int
	bvd
	Int
flights	Array<Flight>

Delay Object

Field	Type
amount	Int
sum	Int

MBI

Input

Name	Type	Index
flights	Array<Object>	0
options	Object	1

Options

Option	Values	Default	Requirements
flights	true, false	false	

Requirements

- baggage.loaded.wab.amount
- mbi

> Set: TOBT

Output

Field	Type
-------	------

stats		
	loaded_baggages	Int
	baggages	Int
	flights	Int