

0.0.1 Timeunit To Number of Seconds

The operation $timeunit \rightarrow seconds$ will return the number of seconds corresponding to the input $Timeunit$

$$Timeunit ::= second \mid minute \mid hour \mid day \mid week \mid month \mid year$$

such that the following schema defines $timeunit \rightarrow second$

$toSeconds[Timeunit]$	_____
$timeunit? : Timeunit$	
$timeunit \rightarrow seconds_ : Timeunit \rightarrow \mathbb{N}$	
$timeunit \rightarrow seconds(timeunit?) = 1 \iff timeunit? = second$	
$timeunit \rightarrow seconds(timeunit?) = 60 \iff timeunit? = minute$	
$timeunit \rightarrow seconds(timeunit?) = 3600 \iff timeunit? = hour$	
$timeunit \rightarrow seconds(timeunit?) = 86400 \iff timeunit? = day$	
$timeunit \rightarrow seconds(timeunit?) = 604800 \iff timeunit? = week$	
$timeunit \rightarrow seconds(timeunit?) = 2629743 \iff timeunit? = month$	
$timeunit \rightarrow seconds(timeunit?) = 31556926 \iff timeunit? = year$	