## **Tutorial: Script - Timer/Indicating**

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# 1 HUGE THANKS TO thor 2950 FOR THE TRANSLATION! 2 Principle

Since the SimStep-procedure is executed on every frame, it needs to be executed as fast as possible and commands like "delay" or "sleep" are prohibited. This also applies to infinite loops, such as while(true).

To program a timer, you need to "mark" the time point at which the timer was initiated and then check if the time has run out. If this is the case, the timer is the deactivated or reset.

### 3 Implementation

32. if RunTimer then

This could look something like this in a script:

#### Code

1. const 2. TIME S = 2; // Seconds 5. Timer: single; // If the value is negative, then the timer is inactive. 8. function RunTimer: boolean; 9. begin 10. result := false: 11. if Timer > 0 then 13. Timer := Timer - Timegap; // Timegap is a system variable, which contains the amount 14. of time in seconds that has passed since the last call of SimStep 15. if Timer <= 0 then 16. result := true; 17. end; 18. end: 29. procedure SimStep; 21. begin 26. // If the timer should be started at some point by some event: 26. Timer := TIME S; 28. ... 29. // The timer is "processed"

```
33. begin
```

- 34. // Do whatever needs to be done after timer runout
- **36.** // If the timer should be continuous:
- 37. Timer := TIME\_S;
- 38. end;
- **3**9. ...
- 42. end;
- 43. procedure Initialize;
- 45. begin
- 4**6**. ...
- 49. Timer := -1; // Set once to a negative value so the timer doesn't start
- **50**. // OR
- 52. Timer := TIME\_S; // start the timer directly, by setting the duration
- 58. ...
- 56. end;

Alles anzeigen