

Errata Corrige

Hard Real-Time Computing Systems: Predictable Scheduling Algorithms and Applications - Third Edition, Springer 2011

Giorgio Buttazzo

- On page 63, the equation for computing the finishing time should be

$$f_i = t + \sum_{k=1}^i c_k(t).$$

and therefore Equation (3.2) should be

$$\forall i = 1, \dots, n \quad \sum_{k=1}^i c_k(t) \leq d_i - t.$$

- On page 63, in the line following Equation (3.2), it should be $f_0 = t$.
- On page 64, in the EDF guarantee algorithm shown in Figure 3.7, the statement $f_0 = 0$ should be replaced with $f_0 = t$.
- On page 81, in the definition of the Hyperperiod, the interval on the third line $[kK, (k+1)K]$ should be $[kH, (k+1)H]$.
- On page 87, Section 4.3.1, second paragraph, line 5:
 $i = 2, \dots, n - 1$ should be $i = 1, \dots, n - 1$.
- On page 183, Equation (6.4) should be

$$next_{r_i}(t) = \left\lceil \frac{t+1}{T_i} \right\rceil T_i.$$

In fact, when t is equal to the activation time of a periodic task τ_i (i.e., when t/T_i is an integer), the interference due to the activated job is already accounted in I_a and should not be accounted in I_f . Using $(t+1)$ in Equation (6.4), when t is equal to the activation time of a job of τ_i , $next_{r_i}(t)$ correctly provides the activation time of the subsequent job.

- On page 214 (Proof of Theorem 7.1), second last line, “it means that $P_2 > C(R_b)$ ” should be “it means that $P_1 > C(R_b)$ ”, because τ_1 preempted τ_2 inside $z_{2,b}$.