

# Limitations of Deferrable Servers

- Limitation of deferrable servers – they may delay lower-priority tasks for more time than a periodic task with the same period and execution time:

$T_1$  blocked for 1.2 units although execution time of the deferrable server is only 1.0 units (with period 3 units)



- A *sporadic server* is designed to eliminate this limitation
  - A different type of bandwidth preserving server
  - More complex consumption and replenishment rules ensure that a sporadic server with period  $p_S$  and budget  $e_S$  never demands more processor time than a periodic task with the same parameters