

## Homework 2

(Due on December 6, 2002; by beginning of class)

1. 8.6 in J.Liu's book.
2. 8.12 in J.Liu's book.
3. 11.1 in J.Liu's book.
4. 11.4 in J.Liu's book.
5. In class we discussed the following general schedulability test for EDF with arbitrary arrival functions:

$$I \geq \sum_{j \in \Pi} b_j(I - d_j) + \max_{k, d_k > I} \{s_k^{max}\} \quad (1)$$

where  $\max_{k, k_k > I} \{s_k^{max}\} = 0$  for  $I > \max_{k \in \Pi} \{d_k\}$ .

*Starting from this general test, derive the deadlines for the case of  $(\sigma, \rho)$  traffic as briefly described in class.*