

# PDM Scheduling

The real PDM algorithm!

$E_\alpha \leftarrow$  Project start date

Order  $\{a_j\}$  so that  $a_i \prec a_k \forall i < k$

For  $j=1$  to  $|\{a_j\}|$  repeat:

$$ES_j \leftarrow \begin{cases} E_\alpha & \text{if } \Gamma_j^{-1} = \emptyset \\ \max_{k \in \Gamma_j^{-1}} \{ \bullet \} & \text{otherwise} \end{cases}$$

$$ES_k + DUR_k + LAG_{kj} \text{ if } \sigma_{kj} = "FS"$$

$$ES_k + LAG_{kj} \text{ if } \sigma_{kj} = "SS"$$

$$ES_k - DUR_j + LAG_{kj} \text{ if } \sigma_{kj} = "SF"$$

$$ES_k + DUR_k - DUR_j + LAG_{kj} \text{ if } \sigma_{kj} = "FF"$$

$L_\omega \leftarrow E_\omega$

For  $j=|\{a_j\}|$  to 1 repeat:

$$LF_j \leftarrow \begin{cases} L_\omega & \text{if } \Gamma_j = \emptyset \\ \min_{k \in \Gamma_j} \{ \bullet \} & \text{otherwise} \end{cases}$$

$$LF_k - DUR_k - LAG_{kj} \text{ if } \sigma_{jk} = "FS"$$

$$LF_k - DUR_k + DUR_j - LAG_{kj} \text{ if } \sigma_{jk} = "SS"$$

$$LF_k + DUR_j - LAG_{kj} \text{ if } \sigma_{jk} = "SF"$$

$$LF_k - LAG_{kj} \text{ if } \sigma_{jk} = "FF"$$

$TF_j \leftarrow LF_j - EF_j$

$FF_j \leftarrow \min_{k \in \Gamma_j} \{ ES_k \} - EF_j$