

(DO NOT LEAK (ONL))

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E18CSE029

EB-01

ORGANIC MODEL

$$KLOC = 3000 \text{ lines} = 3 \text{ KLOC.}$$

$$\begin{aligned} \underline{\text{Effort}} &= 2.4 (KLOC)^{1.05} \text{ PM} \\ &= 2.4 (3)^{1.05} \text{ PM} \\ &= 2.4 \times 3.169 \text{ PM} \\ &= \underline{\underline{7.6056 \text{ PM}}} \end{aligned}$$

PRODUCTIVITY

$$= \frac{KLOC}{\text{Effort}} = \frac{3}{7.6056} = \underline{\underline{0.3944 (KLOC/PM)}}$$

TDEV (Time required for dev).

$$\begin{aligned} &= b_1 \times (\text{effort})^{b_2} \text{ months} \\ &= 2.5 (7.6056)^{0.38} \text{ months} \\ &= 2.5 \times 2.1618 \text{ months} \\ &= \underline{\underline{5.404 \text{ months}}} \end{aligned}$$

staff

=  $\frac{\text{effort}}{\text{dev.}}$  (persons)

=  $\frac{7.6056}{5.404}$  person

= 1.4 person

1/2 2 persons.