

## The cond statement

$$\begin{aligned} &(\text{cond } (b_1 \ e_{11} \ e_{12} \ \dots \ e_{1k_1}) \\ &\quad (b_2 \ e_{21} \ e_{22} \ \dots \ e_{2k_2}) \\ &\quad \vdots \\ &\quad (b_n \ e_{n1} \ e_{n2} \ \dots \ e_{nk_n})) \end{aligned}$$

evaluation:  $b_1$  is evaluated. If other than #f, then  $e_{11} \ e_{12} \ \dots \ e_{1k_1}$  are evaluated; return  $e_{1k_1}$

If  $b_1 = \text{\#f}$ , evaluate  $b_2$ . If other than #f, then  $e_{21} \ e_{22} \ \dots \ e_{2k_2}$  are evaluated; return  $e_{2k_2}$

If  $b_2 = \text{\#f}$ , evaluate  $\dots$

evaluate  $b_n$ . If other than #f, then

$e_{n1} \ e_{n2} \ \dots \ e_{nk_n}$  are evaluated; return  $e_{nk_n}$

If  $b_n = \text{\#f}$ , then return "No value"