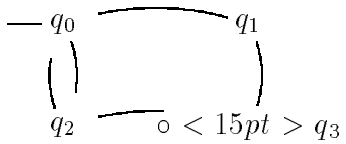
A DFA which accepts the language

$\{w \mid w \in \{0,1\}^* \ \& \ w$ contains an odd number of ones and an odd number of zeros$\}$: