

编译 HW6

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7.1(d) $t_1 = a + b$

$t_2 = -t_1$

$t_3 = c + d$

$t_4 = t_2 * t_3$

$t_5 = a + b$

$t_6 = t_5 + c$

$t_7 = t_4 + t_6$

7.2(c) $L_0: \text{if } i \leq 10 \text{ goto } L_1$

$\text{goto } L_2$

$L_1: a[i] = 0$

$\text{goto } L_0$

$L_2: (\text{return})$

7.5 $P \rightarrow \{ D.\text{offset} = 0 \} D; S$

$D \rightarrow \{ D_1.\text{offset} = D.\text{offset} \} D_1;$

$\{ D_2.\text{offset} = D.\text{offset} + D_1.\text{width} \} D_2 \{ D.\text{width} = D_1.\text{width} + D_2.\text{width} \}.$

$D \rightarrow \text{id} : T \{ \text{enter}(\text{id.lexeme}, T.\text{type}, D.\text{offset}); D.\text{width} = T.\text{width} \}.$

$T \rightarrow \text{integer} \{ T.\text{type} = \text{integer}; T.\text{width} = 4 \}.$

$T \rightarrow \text{real} \{ T.\text{type} = \text{real}; T.\text{width} = 8 \}$

$T \rightarrow \text{array} [\text{num}] \text{ of } T_1 \{ T.\text{type} = \text{array}(\text{num.val}, T_1.\text{type}); T.\text{width} = \text{num.val} \times T_1.\text{width} \}$

$T \rightarrow \uparrow T_1 \{ T.\text{type} = \text{pointe}(T_1.\text{type}); T.\text{width} = 4 \}$