

Advanced Macro Facility

MACRO

EVAL $\&P$ $\&Q$, $\&R$
AIF ($\&Q$ EQ $\&P$) • ONLY
MOVER AREG, $\&P$
SUB AREG, $\&Q$
ADD AREG, $\&R$
AGO • OVER
• ONLY MOVER AREG, $\&R$
• OVER MEND

1st
Macro
defⁿ

MACRO

LEAR $\&X$, $\&N$, $\® = AREG$
LCL $\&M$
 $\&M$ SET 0
MOVER $\®$, = '0'
• MORE MOVEM $\®$, $\&X + \&M$
 $\&M$ SET $\&M + 1$
AIF ($\&M$ NE $\&N$) • MORE
MEND

2nd
Macro
defⁿ

CLEAR B, 3
EVAL 10, 5, 2
EVAL 10, 10, 7

calls

Pass I data structures. Common for both def's:

<u>MNT</u>	<u>name</u>	<u>#PP</u>	<u>#KP</u>	<u>#EV</u>	<u>MDTP</u>	<u>KPDTP</u>	<u>SSTP</u>
1	EVAL	3	0	0	1	1	1
2	CLEAR	2	1	1	8	1	3

<u>KPDTP</u>	1	2
	REG	AREG

<u>SSTAB</u>	1	2	3		
	-	-	-	}	1st Macro
	-	-	-	}	2nd Macro

1.DT

- 1 AIF (CP, 2) EQ (P, 1) (CS, 1)
- 2 MOVER AREG, (P, 1)
- 3 SUB AREG, (P, 2)
- 4 ADD AREG, (P, 3)
- 5 AGO (CS, 2)
- 6 MOVER AREG, (P, 3)
- 7 MEND

PNTAB for EVAL

- 1 - P - (P, 1)
- 2 - Q - (P, 2)
- 3 - R - (P, 3)

EVNTAB (nothing)

SSNTAB

- 1 - ONLY - (CS, 1)
- 2 - OVER - (CS, 2)

8 LCL (E, 1)

- 9 (E, 1) SET 0
- 10 MOVER (P, 3), = '0'
- 11 MOVEM (P, 3), (P, 1) + (E, 1)
- 12 (E, 1) SET (E, 1) + 1
- 13 AIF ((E, 1) NE (P, 2)) (CS, 1)
- 14 MEND

PNTAB for CLEAR

- 1 - X - (P, 1)
- 2 - N - (P, 2)
- 3 - REG - (P, 3)

EVNTAB

- 1 - M - (E, 1)

SSNTAB

- 1 - MORE - (CS, 1)