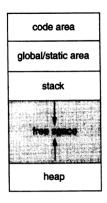
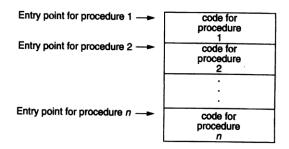
## **Runtime Environment**

## Memory Models:

- Tiny (ONE Segment ONLY)
- Small
- Compact
- Medium
- Large
- Huge





## **Procedure Activation Record**

space for arguments (parameters)
space for bookkeeping information, including return address
space for local data
space for local temporaries

## **Fully Static Runtime Environment**

- All Data is static
- No pointers
- No Dynamic Memory Allocation)

code for main procedure

code for procedure 1

Code area

code for procedure n

global data area

activation record of main procedure

activation record of procedure 1

...

activation record of procedure n

PROGRAM TEST Global area COMMON MAXSIZE INTEGER MAISIZE REAL TABLE (10), TEMP MAXSIZE = 10 Activation record READ \*, TABLE(1), TABLE(2), TABLE(3) of main procedure CALL QUADMEAN (TABLE, 3, TEMP) PRINT \*, TEMP END SUBROUTINE QUADMEAN(A, SIZE, QMEAN) COMMON MAXSIZE INTEGER MAXSIZE, SIZE REAL A(SIZE), QMEAN, TEMP INTEGER K Activation record TEMP = 0.0 of procedure IF ((SIZE.GT.MAXSIZE).OR.(SIZE.LT.1)) GOTO 99 QUADMEAN DO 10 K = 1,SIZE TEMP = TEMP +  $\lambda(K)*\lambda(K)$ 10 CONTINUE 99 QMEAN = SQRT(TEMP/SIZE) RETURN END

