SONTING IN 2 PASSE Assume PETOFILE P HAS N PAGES @ # BUFFORS > IN + 1 READ F, IN PASES AT A TIME, PHASE #1 anicksmt, write somes # This RUN OF LENGTH IN Pages Report For Au PARES INF = 2×N # SMTED RUNS # REPORTS = TN = VN PHASE # 2 DO & WAY MENGE 1 RZ TANGR Source P IN PRIM of Lensing M-W=N ever aux IN Page EXAMPLE #1 Assure N = 106 Pages 106 × 10 Bytes 106 Bytes

N = 103 pages 13 4 L 103 × 104 Byter = 10MB N = 1010 pages 105 × 104= 109= 14B EX-#2 X109=1019= 100 ×1012= 100 TB

Sour neise 5,6 a 2 4 Dog ANDRU R SCAN MOTIL R.a. > S.b ADJANCE S SCAN MOTIL S.b > R.a MATIL R.a = S.b Join ER; WITH ES; WITH CURRENT R.a, Stovalus