

$\blacktriangleright B_k$ has $\approx n^2/2$ elements

Each rank-two update requires 2n elements









► R. Fletcher and C. Reeves, Function minimization by conjugate gradients, *Computer* Journal, 7, 1964, 163-168. ► M. Hestenes and E. Steifel, Methods of conjugate gradients for solving linear systems, J. Res. N. B. S., 49, 1952, 409-436.