



SIS - Stat/Step latel Determining the value of m - motis given by the largest Cycle => m = 3 for Cycle 8 Provide a SIR later for each cycle of the algorithm - activated when the algorithm enters the rejection cycle. BEGIN BEGIN Nochwo-3 Barl Socretage Canto clu elh Doset Reset COONTI EXO even no of investors. -delay the Congrad

4. Twas Couplewent Multiplication Bosed on Robertson's Procedured - multiply 2 no het C2

- use conversions 2 2. comment x, y. C2 -> SN x day

Roberton & Material 23. convert P SN -> C2. x 2 y Robertson's interpretation:

Let  $X_{C2} = X_{m-1} \times X_{m-2} - X_1 \times X_0$ Perstans in (2) \$7. value of X, os miliger X = -xm102 + 0xm-2 xm3 -- xixo value of Y, os fraction X = -xm102 + 0 xm2 xm3 - xixo A positive m C2 = the save positive m SD. positive m SD. let 4,7- freetrools Im (?) = a particle in SN. + conectia.

Let 4,7- freetrools

= Xex Y = (-xm, e2° + 0 xm-2 xm-3 - xixe) \* Y

= bulk of \* SN-multiplication X\*, positive in SN.

= Xex Y - Xm-1 \* Y \* 2° free Conection

Nultiplicand Year also be more You - M-the wide of more freetroops Nuttiplicand I can also be negative => all the patial products are negative => the patrial products need to how the right of Y + dedne egisters AT 7:0], QT7:0], NT7:0], COUNTOZ:0], F; declare bus interstricts, out BUSCFIOT; A: =0, COUNT: =0, F:=0, BEGIN 404 IMPUT! M:= INBUS; Q:=INBUS; 4017 TE876: If Q to 3 = 0 the go to LShift, ADO ! A:= A+17, F:= For (QTOSand 17073); 6 {c2} ATT3:= 7, ATG: 03.Q: - A. QTT: [] (COUNT + 1 COUNT + 1 the goto TOSTA, DShyf! (3) INCREMENT! 70572! 78573: of Oto ]= o Her go to OUTPUT, (8,94) CORRETTON: A:= A-17, QEOJ:=0; = OUTPUT: OUTDUS: = A: -500) 007BUS: = Q '; 4 ENO : >SEND

