2 26 24 VERSUS CUZCULARS CONSUDENTION LINEAR (0588 8-6-8.2) IDET XAT = JZ SUNJEI BEANDER: Q WEDNESOAY 15 x (1) \$0,0 = N = N-1 X[+]= Z x[4] B T DFT × [u] = ~ Z K [+] WN hot WN = E E[K] = Ex(n] W CONVOLUTION (MULTIFUCATED DEOFERTY bet KSN3 # E, CKY X2[A] ET EZSEZ \$[k] = X, [k] Z 2[k] YINI E> Fles THEAD $Y[n] = Z \times [((n-k))] \times [((k))] = \chi[n] \oplus \chi_{s[n]}$ JACIARCE Z N-TOINT CIRCULAR CONTOLOHON X, [4] \$ X2 [4] = X2 [4] # X, [4] \$ 54 [4] BUN-LINJ BUN-LINJ F 50(1) =

X, [4] \$ X2 [4] = X2 [4] # [X1 [4] # 54 [4] = (X2 [4] # X. (4] # 50 [4] LINBAR N-POINT ALIASING CREVER CONVOLUTION CONVOLOTION CONTRACTOR of FINITE-DURATION SEGUENCES XINT * X, [N) = YMY 6 ((LENGTH N, LENGTH LENGTH North N, N2 North2-1 XINJ#X2(1] = XINJ@X2(N] IF NZN, +512-1 FUTERIDE USINE CARCULAR CONVOLUTION 7 2 25.8 2 2 2 × [n] -> h (n] -> Y [n] $\frac{1}{5000} + \frac{16}{10^3} + \frac{16}{10^3} + \frac{16}{10^3} + \frac{10}{10^3} + \frac$ 67.1 unos 16 k#3 hal is of LENGTA 1024 NOSSIBLE SOLUTOR LET - MILLION - PT, DFT of X 67.1 - MILLOW - PT. AFT of h MULT 67.1 IDFT & X[k) H(k) FOR BESULT 201050004 = L. BREAK UP INPOT INTO SOBSEQUENCES Z. CONVOLNE SUBFLOUSNOSS INDENIEVANCE WITH h[n] 3. REASSEMBLE OUTEUR OVER CAP-ADD ACCORDER LOIS OVERLAT - SAVE ALGORITH

THE OVERLAP-ADD PROCEDURE (OLA) ASSUNE WINJED, OSAEP-1 OVERLAR- ADD 1. BREAK WPOT 10000 ABOTTING SEGUES COS & LENGTH L Z. PERFORM CIRIOLAR CONVOLUTION OF SAMPLE RESPONSE USING DEGS OF GLEE LEP-1 3. CONTINE OUTINS Let XSAI = EX, [A-FL], X, MI +0, OEAEL-1 500 36-1 20 21-12 k-(D 26 6-19-1 OUTPUTS Y, InZ = X(n) & hhz = x, Enz& hInj 9 LENGTH LHP-1 YofnJ Y. [1] Y. S. J. 42[1] L LtP-2 2 2L+P-2 2 3L+P-2 ٨ $\frac{3L+P-2}{3L+P-2} = \frac{2}{2} \frac{1}{2} \frac{1}{2}$ P= 256 r first last first last 0 763 0 0 1023 269 1792 769 1537 1328 2561 2 1538 2306

ANALY OCACHY (AS PER 054P) LET KrSnJ = K (A+ r (L-(P-1)) - (P-1)] OENEL-1 1[1] = Z trp[n], P-1=n= h-1 Yrp En] = Xr[n] & hsnz X-67 Y-507 J 10907 SEB - SAVED PTS-FX1 1024-PT. 0 0 1023 255 1023 DFIS 1 769 1792 1024 1792 9=256 2 1538 2561 1793 2561