COMPLEX TO COMPLEX FFT

A(N) –> B(N)

complex complex

COMPLEX FFT, LENGTH N –– ORDERING

Real	k = 0 1 2 3 ... (N/2–2) (N/2–1) (+–N/2) –(N/2–1) –(N/2–2) ... –3 –2 –1
Imag	k = 0 1 2 3 ... (N/2–2) (N/2–1) (+–N/2) –(N/2–1) –(N/2–2) ... –3 –2 –1

REAL TO COMPLEX FFT

A(N) –> B(N/2 +1)

real complex

(Only store positive frequencies)

DEALIAS, RE–PACK

Real	k = 0 1 2 3 ... (N/2–2) (N/2–1) (+–N/2) –(N/2–1) –(N/2–2) ... –3 –2 –1
Imag	k = 0 1 2 3 ... (N/2–2) (N/2–1) (+–N/2) –(N/2–1) –(N/2–2) ... –3 –2 –1

Real	k = 0 1 2 3 ... (ND/2) –(ND/2) ... –3 –2 –1
Imag	k = 0 1 2 3 ... (ND/2) –(ND/2) ... –3 –2 –1