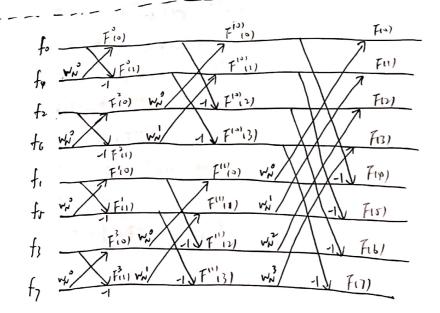
通次加倍的FFT再次 なWN=e-j27/N, 为N次車住井及(WN = e-j24=1) 沒N=2Y, V为正趋初 ゆけり対定义可は、 DFT: $F_n = \frac{1}{N} \sum_{i \neq 0}^{N-1} f(i) W_N^{ni}$ (7) n = 0, 1, 2, ..., N-1i2 N=2M, M为2维致 $F_{n} = \frac{1}{2M} \sum_{i=0}^{2M-1} f_{i} \cdot W_{2M}^{ni} + \frac{M}{2M} \int_{i=0}^{M-1} f_{2i+1} W_{2M}^{n(2i+1)}$ $= \frac{1}{2} \left\{ \frac{1}{M} \sum_{i=0}^{M-1} f_{2i} W_{2M}^{ni} + \frac{1}{M} \sum_{i=0}^{M-1} f_{2i+1} W_{2M}^{n(2i+1)} \right\}$ 名i2 Wzm = Wmi 大文有 前一年 Fn = \(\frac{1}{M} \frac{M}{2} \frac{1}{2} \frac{1}{M} \frac{1}{2} \frac{1}{M} \frac{1}{2} \frac{1}{M} \frac{1}{M 定义: Fn = 一点 だ fz; Wm , 下音 = 上意 fz; Wn n=0.1,2,..., M-1 2: Wm = [e-j2 /m] n+M = Wm e-j2 = Wm $W_{2M}^{nfM} = [e^{-j2\pi/2M}]^{nfM} = -W_{2M}^{n}$ $F_{nrm} = \frac{1}{2} \left\{ F_{n}^{18} - F_{n}^{\frac{4}{3}} \cdot W_{2m}^{\frac{1}{3}} \right\}$ $= \frac{1}{2} \left\{ F_{nrm}^{18} + F_{nrm}^{\frac{1}{3}} \cdot W_{2m}^{\frac{1}{3}} \right\}$



8をFFT付きをけるは記.

$$F^{*}(0) = \frac{1}{2} (f_{0} + w_{0}^{*} f_{0})$$

$$F^{*}(1) = \frac{1}{2} (f_{0} - w_{0}^{*} f_{0})$$

$$F^{*}(1) = \frac{1}{2} (f_{0} - w_{0}^{*} f_{0})$$

$$F^{*}(1) = \frac{1}{2} (f_{1} + w_{0}^{*} f_{0})$$

$$F^{*}(2) = \frac{1}{2} (f_{1} + w_{0}^{*} f_{0})$$

$$F^{*}(3) = \frac{1}{2} (f_{1} + w_{0}^{*} f_{0})$$

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$$F^{*}(2) = \frac{1}{2} (f_{1} + w_{0}^{*} f_{0})$$

$$F^{*}(3) = \frac{1}{2} (f_{$$