```
            .data

AR          .word     0h
AI          .word     0h
BR          .word     0h
BI          .word     0h
COS         .word     0h
SIN         .word     0h

            .text

INIT        LD   #AR, DP          ; страница данных
            SSBX SXM              ; расширение знака
            SSBX FRCT             ; умножение дробных чисел

BTRFLY      LD   BR,  T           ; T = B_real
            MPY  COS, A           ; A = B_real*cos
            LD   BI,  T           ; T = B_imag
            MAC  SIN, A           ; A = B_real*cos + B_imag*sin
            MPY  COS, B           ; B = B_imag*cos
            LD   BR,  T           ; T = B_real
            STH  A,   BR          ; B_real = hi(A)
            MAS  SIN, B           ; B = B_imag*cos – B_real*sin
            STH  B,   BI          ; B_imag = hi(B)
            LD   AI,  15,  A      ; A = 1/2*A_imag
            ADD  BI,  15,  A      ; A = 1/2 * (A_imag + B_imag)
            STH  A,   AI          ; A_imag = 1/2 * new_A_imag
            SUB  BI,  16,  A      ; A = 1/2 * (A_imag – B_imag)
            STH  A,   BI          ; B_imag = 1/2 * new_B_imag
            LD   BR,  15,  A      ; B = 1/2 * B_real
            ADD  AR,  15,  A      ; A = 1/2 * (A_real + B_real)
            STH  A,   AR          ; A_real = hi(A)
            SUB  BR,  16,  A      ; A = 1/2 * (A_real – B_real)
            STH  A,   BR          ; B_real = hi(A)
```