```
Function: Fifo_Get
  0000 3b           [2]       PSHD
   63:    if(PutI == GetI ){
  0001 fc0000       [3]       LDD    PutI
  0004 bc0000       [3]       CPD    GetI
  0007 2603         [3/1]     BNE    *+5 ;abs = 000c
   64:      return(FIFOFAIL); // Empty if PutI=GetI
  0009 c7           [1]       CLRB
  000a 2017         [3]       BRA    *+25 ;abs = 0023
   65:    }
   66:    *datapt = Fifo[GetI&(FIFOSIZE-1)];
  000c f60000       [3]       LDAB   GetI:1
  000f c41f         [1]       ANDB   #31
  0011 ce0000       [2]       LDX    #Fifo
  0014 a6e5         [3]       LDAA   B,X
  0016 ee80         [3]       LDX    0,SP
  0018 6a00         [2]       STAA   0,X
   67:    GetI++;  // Success, update
  001a fe0000       [3]       LDX    GetI
  001d 08           [1]       INX
  001e 7e0000       [3]       STX    GetI
   68:    return(FIFOSUCCESS);
  0021 c601         [1]       LDAB   #1
  0023 87           [1]       CLRA
   69:  }
  0024 30           [3]       PULX
  0025 3d           [5]       RTS




   91:      while(Fifo_Get(&ForeData)==FIFOFAIL){
  0022 cc0000       [2]       LDD    #ForeData
  0025 160000       [4]       JSR    Fifo_Get
  0028 0454f7       [3]       TBEQ   D,*-6 ;abs = 0022


50 cycles per call
50/24*10^6 = 2.08333333 us per call
```