## Saptember 27, 2021

- · C code -> ARM assembly (1)
- . Comp. ard. ADDER 3
- · create library

Take fibic > ARM 13 45 6 7 8 1,1,2,3,5,8,13,21

u w (utw) (utw) fib.c M= n+M n = (m - n)mt fib (int nth) fib (inil nth) int m=1, n=1; it (4/==1) int m = 1, n=1; retuml 1+ (n+h ==1) if (nth==2) goto quit; } return 1 Lf (nth == 2) for ( wt 1=3; goto quit } m = n + mloop n= m-n; goto quet, return m; quit return m; z

Fib .5 Int Fib (Inil nth) fib: @ m=m+n f m+ n=1, m=1; (1) push {fp, Ir} add r9, r9, r10 @ m=m+n add fp, sp, #4 if (nth ==1) @ rop contains nth; { px=x} @ n = m - N@ use r10 = n and 19 = m gote quit; } sub 110, 49, 110@ n=m. n mov r10, # (@ n=1 if (nth == 2) mu r9, #1@ m=1 @ [=1+1 gh/=X add r8, r8, #1 @ i = i+1 goto quit; cmp rø, #1 (beg quit bloop @ quto loop (b) cmp rd, #2 D quit: beg quit Loop: (5) @ return m Lf (1 > n/h) mov 1/8, #3 goto quit; mov rø, r9 @ return m M = M + N(3) (ODP: N = M - Ncmp r8, r\$
bgt quit Sub 50, FD, #4 i = 1+1; (1) POP Stp, pc} (1) gut a loop and return m;