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| **PROGRAMA 2** | | | | |
| **ETIQUETA** | **DIRECCIÓN** | **INSTRUCCIÓN** | **ASSEMBLY** | **COMENTARIOS** |
| Reset | @0x0 | 10210003 | beq R1, R1, INI; | Se salta siempre a la @16 donde empieza el programa |
| IRQ | @0x4 | 1021003E | beq R1, R1, RTI; | Se salta siempre a la @64\*4 |
| DAbort | @0x8 | 1021005D | beq R1, R1, RT\_Abort; | Se salta siempre a la @96\*4 |
| UNDEF | @0xC | 1021006C | beq R1, R1, RT\_UNDEF | Se salta siempre a la @112\*4 |
| INI | @0x10 | 08020000 | LW R2, 0(R0) | Dirección base del vector |
|  | @0x14 | 08090000 | Lw r9, 0(r0) |  |
|  | @0x18 | 080A0000 | Lw r10, 0(r0) | R10 = 4 |
|  | @0x1C | 08030040 | lw R3, 64(r0) | Acumulador = R3 = 0 |
|  | @0x20 | 08040044 | lw R4, 68(r0) | I = R4 = 0 |
| while | @0x24 | **08050050** | lw r5, 50(R0) |  |
|  | @0x28 | 10850009 | Beq r4, r5, FinWhile |  |
|  | @0x2C | 09260000 | lw r6, 0(r9) | Vector[i] |
|  | @0x30 | 052A4800 | add r9, r9, r10 | Incremento dirección del vector |
|  | @0x34 | 08470054 | lw r7, 54(r2) | R7 = 2 |
|  | @0x38 | 10C70004 | Beq r6, r7, FinWhile |  |
|  | @0x3C | 04661800 | Add r3, r3, r6 | Acum += vector[i] |
|  | @0x40 | 08480058 | Lw r8, 58(r2) | R8 = 1 |
|  | @0x44 | 04882000 | Add r4, r4, r8 |  |
|  | @0x48 | 0C430064 | St r3, 64(r2) | Guardo en memoria Acum |
| FinWhile | @0x4C | 1021FFF5 | Beq r1, r1, while |  |
|  | @0x50 | 08480000 | Lw r8, 0(r2) |  |
|  | @0x54 | 10C80001 | Beq r6, r8, resetAcum |  |
|  | @0x58 | 10210002 | Beq r1, r1, fin |  |
| resetAcum | @0x5C | 08430064 | Lw r3, 68(r0) |  |
|  | @0x60 | 0C430064 | St r3, 64(r2) |  |
| Fin | @0x64 | 1021FFFF | Beq r1, r1, fin |  |
| RTI | @0x100 | 20000000 | RTE |  |