## **ACPI I2C Muxes**

Describing an I2C device hierarchy that includes I2C muxes requires an ACPI Device () scope per mux channel. Consider this topology:

```
| SMB1 |-->| MUX0 |--CH00--> i2c client A (0x50)
         | | 0x70 |--CH01--> i2c client B (0x50)
which corresponds to the following ASL:
   Device (SMB1)
        Name (_{\rm HID}, ...)
        Device (MUX0)
            Name (_HID, ...)
Name (_CRS, ResourceTemplate () {
                 I2cSerialBus (0x70, ControllerInitiated, I2C_SPEED,
                              AddressingMode7Bit, "^{\text{SMB1}}", 0x0\overline{0},
                               ResourceConsumer,,)
            }
            Device (CH00)
                 Name (_ADR, 0)
                 Device (CLIA)
                     Name ( HID, ...)
                     Name (_CRS, ResourceTemplate () {
                          I2cSerialBus (0x50, ControllerInitiated, I2C_SPEED,
                                       AddressingMode7Bit, "^{\text{CH00}}", 0 \times 0 \overline{0},
                                       ResourceConsumer,,)
                     }
                 }
            }
            Device (CH01)
                 Name (_ADR, 1)
                 Device (CLIB)
                     Name (_HID, ...) Name (_CRS, ResourceTemplate () {
                          I2cSerialBus (0x50, ControllerInitiated, I2C SPEED,
                                       AddressingMode7Bit, "^CH01", 0x00,
                                        ResourceConsumer,,)
               }
          }
      }
```