package NXT.BC4 is

   procedure Initialize_Device;

   type Reset_Status is (Success, Failed, Unpowered);
   pragma Discard_Names (Reset_Status);

   procedure Reset_Device (Result : out Reset_Status);

   procedure Enter_Command_Mode;

   procedure Enter_Data_Mode;

   function Current_Mode return Unsigned_32;

   procedure Send (Msg : System.Address; Length : Natural);

   procedure Receive (Msg : System.Address);

private

   subtype Buffer_Index is Integer range 0 .. 127;

   type Buffer is array (Buffer_Index) of Unsigned_8;
   pragma Volatile (Buffer);

   subtype Buffer_Selector is Unsigned_8 range 0 .. 1;
type Double_Buffer is array (Buffer_Selector) of aliased Buffer;

Incoming : Double_Buffer;
Index : Integer;
Current_Buffer : Buffer_Selector;

type Buffer_Reference is access all Buffer;
for Buffer_Reference'.Storage_Size use 0;
pragma No_Strict_Aliasing (Buffer_Reference);

Buf_Ptr : Buffer_Reference;

end NXT.BC4;