```
/* Allocate eight SDRAM transfer registers to hold the packet header */
xbuf_alloc[$$hdr, 8]
/* Reserve two general-purpose registers for the computation */
.local base offset
      /* Compute the SDRAM address of the data buffer */
       Buf_GetData[base, dl_buffer_handle]
       /* Compute the byte offset of the start of the packet in the buffer */
       DL GetBufferOffset[offset]
      /* Convert the byte offset to SDRAM words by dividing by eight */
       /* (shift right by three bits) */
       alu_shf[offset, --, B, offset, >>3]
       /* Load thirty-two bytes of data from SDRAM into eight SDRAM */
      /* transfer registers. Start at SDRAM address base + offset */
       sdram [read, $$hdr0, base, offset, 4]
/* Inform the assembler that we have finished using the two */
/* registers: base and offset */
.endlocal
/* Process the packet header in the SDRAM transfer registers
/* starting at register $$hdr */
/* Free the SDRAM transfer registers when finished */
xbuf_free [$$hdr]
```