

**LISTING 3 ENUMERATED TYPE
FOR FOUR PACKET CLASSES**

```
enum { read, write, atomic, ctrl } packet_class
covergroup packets_seen (@(packet_received);
    coverpoint payload_size {
        bins empty = { 0 };
        bins minimum = { 1 };
        bins maximum = { 1023 };
        bins others = default; }
    coverpoint packet_class;
    cross payload_size, packet_class;
endgroup : packets_seen
```