packet.h 05/12/08 9:52 AM

```
#ifndef _PACKET_H
#define _PACKET_H
#include <string>
// Packet bytes
#define NONE
                (char)0x00
#define SOH
                (char)0x01
// Flags
#define ENQ
                (char)0x80
#define ACK0
                (char)0x40
#define ACK1
                (char)0x20
#define NACK
                (char)0x10
#define RVI
                (char)0x08
#define SEO
                (char)0x04
#define CON
                (char)0x02
#define NTS
                (char)0x01
class Packet {
public:
    Packet();
    Packet(const Packet& packet); // cpconst
    Packet(char flag);
                                  // control packet
    Packet(std::string data);  // data packet (from GUI)
    void append(char c);
    bool valid();
                           // validates packet
    bool complete();
                          // checks if enough bits have been received (for input from
serial port)
    int flags();
                           // flags byte from packet (seg bits set to 0!!!)
    std::string data();
                          // data section from packet
    std::string toString(); // entire packet (for sending)
    void seq(bool toggle); // sets the seq bit
    bool seq();
                           // checks the sea bit
    void clear();
    int length();
    bool cmd();
    void calcCRC();
private:
    std::string packet_; // entire packet (header + data + crc)
    size_t length_;
    static const size_t minLength_ = 4;
};
#endif
```

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