

Fixing some driver problems

Most software is discovered to have some 'design-flaws' after it has been put into use for awhile

Problem 1

- Statistics registers are 'clear-on-read', but 'get_info()' function can be entered twice, so if a statistics register is re-read upon a second entry to this function, a zero-value 'overwrites' the original statistic-value

```
int my_get_info( char *buf, char **start, off_t off, int count )
{
    int      n_xmit_packets = ioread32( io + E1000_TPT );
    int      len = 0;

    len = sprintf( buf+len, " packets sent = %d \n", n_xmit_packets );
}
```

Fix for problem 1

- We can declare any variables that will be used to store statistics to be 'static', then add any new inputs to their prior values

```
int my_get_info( char *buf, char **start, off_t off, int count )
{
    static int      n_xmit_packets = 0;
    int            len = 0;

    n_xmit_packets += ioread32( io + E1000_TPT );
    len = sprintf( buf+len, " packets sent = %d \n", n_xmit_packets );
}
```