A couple of things:

1) Do you have a structure of arrays? If so, then something like this should work:

```
FOR i=0, N_TAGS(str)-1 DO BEGIN
  ind = WHERE(str.(i) LT -100, count)
  IF count NE 0 THEN str.(i)[ind] = !VALUES.F_NAN
ENDFOR
```

2) A word of warning: if any of the fields are not floating point values, this won't work. Using the code as is will result in the "error" values assigned to zero, and a warning about Floating Illegal Operand will be issued. This is caused because the type of a field in a structure can not be changed.

3) I'm told that you can't use IF statements with structures

In what sense?