An additional detail.

Actual demo launches a SEGFAULT using gfortran 64 bits.

To fix it, this could be done:
- In Fortran code, declare string as
character(len=80) :: cc = char(0)
- In C code, remove
cc[ll--] = '\0'; // NULL terminate the string
This is due in void writelog_(char *cc, int ll), ll has the original dimension (80), but as gfortran seems to trim the length to the real string, returned string is shorter so assigning a '\0' to 80-1 access to non allocated memory, creatintg the SEGFAULT

- Assign the class pointer in the constructor:
tfp = this;
If not, calling tfp->WriteLog(cc); may fail.