> I use PROFILER to check and show the I/O take most of time,use Chris
> suggestion,I read all the projections(in 3D array) in advance and it
> speed up a lot,but use 3D array I can just read 100 projections,if
> more it complainï¿½ % Array has too many elements.ï¿½ ??? how to avoid
> this.

You don't have enough memory available. Use "memtest.pro" from ITTVIS to
figure out the largest array you can make. So you basically have 3
options, the last one being, obviously, the easiest:
1) buy more memory. If on windows, you can't get more than 2Gb of memory
for IDL, unless you play with the /3gb option on windows AND that you
enable IDL to get access to 3gb... I don't know if it is feasible on IDL 7.

2) switch to Linux. You will be able to a) access more memory and b)
access more contiguous memory (bigger arrays, look on ITTVIS website for
an explanation)

3) don't create one big array, but an array of pointer, each pointing to
a single entity (or image). Like that, each entity use a small amount of
memory and you will be able to store much more entities.

> Iï¿½m thinking dose IDL has some type of file that I can write one row
> each time without read the file first??
> Thank you very much.

look at openW with the /append keyword.

Jean