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it wants within the structure, but I doubt this freedom is ever exercised.

The "extra" padding you are seeing is padding at the end of the structure to maintain alignment of the elements in arrays of the structure.

- > The strange thing is that the real structure, for which `n_tags` was reporting the wrong size,

`n_tags` is not reporting the wrong size, it's reporting the actual size

- > was then used to correctly read data from a binary file.

at a guess, IDL reads structures element-by-element.

- > It didn't read all the data, of course, because the calculation of the number of records in the file was incorrect due to the incorrect record size reported by `n_tags`.

again, `n_tags` is not incorrect.

- > And we verified, using `fstat`, that the read had read `nrecs*totsize(r)` bytes of data from the file, so each record was being filled with `totsize(r)` bytes and all the quantities looked correct. If it had been reading and filling each record with `n_tags(r)` bytes, there should have been a problem starting with the second record, since it would've been off by `n_tags(r)-totsize(r)` bytes.

- > So the low level I/O routines were correctly filling the structure, treating each as a structure of `totsize(r)` bytes, when `n_tags` was returning the size of some padded variant.

- > What say you? Bug or not?

No bug - operator error.