Coding Conventions

Formatting

- Run AStyle script

  RunAstyle.pl

  I'm not even slightly happy about the way this looks but I've found no better alternative.

<<not sure where this should go… almost a coding convention>>

Begin/End versus start/length

STL is reasonably consistent, with most APIs using T* start, T* end, but some APIs use length instead of end. The Stroika convention is to always use T* start, T* end.

Rationale

One, this gives more consistent expectations. That's especially important for APIs that use offsets (like String) – so that its obvious the meaning of integer parameters.

And it avoids problems with overflow. For example, if you had an API like:

```
basic_string substr(
    size_type _Off = 0,
    size_type _Count = npos
) const
```

To map this to an internal representation you have todo:

char* s = m_bufPtr + _Off;

char* e = m_bufPtr + _Off + _Count;

but if count was numeric_limits<size_t>::max(), then the e pointer computation would overflow. There are ways around this, but mixing the two styles creates a number of problems - but for implementations – and for use.