Subject: Default comparisons for type derived from Moveable
Posted by busiek on Tue, 21 Nov 2023 12:39:09 GMT

With c++20 with have a feature to generate comparisons operator: Default comparisons.
However, when class is derived from Upp::Moveable (which is common case) we face a problem
that there is no default generated comparison operator for EmptyClass. The definition of this class
could be changed to:
struct EmptyClass
{
#if __cplusplus >= 202002L
 auto operator<=>(const EmptyClass&) const = default;
#endif
};
But then it leads to some conflicts for classes derived from Moveable which have some
comparison operator defined by themselves. This means I have to use NTL_MOVEABLE() which
is not as convenient as inheriting from Moveable. Is there any simple way in Upp to fix that?