#include <twml/io/IOError.h>

namespace twml {

namespace io {

namespace {

std::string messageFromStatus(IOError::Status status) {

switch (status) {

case IOError::OUT\_OF\_RANGE:

return "failed to read enough input";

case IOError::WRONG\_MAGIC:

return "wrong magic in stream";

case IOError::WRONG\_HEADER:

return "wrong header in stream";

case IOError::ERROR\_HEADER\_CHECKSUM:

return "header checksum doesn't match";

case IOError::INVALID\_METHOD:

return "using invalid method";

case IOError::USING\_RESERVED:

return "using reserved flag";

case IOError::ERROR\_HEADER\_EXTRA\_FIELD\_CHECKSUM:

return "extra header field checksum doesn't match";

case IOError::CANT\_FIT\_OUTPUT:

return "can't fit output in the given space";

case IOError::SPLIT\_FILE:

return "split files aren't supported";

case IOError::BLOCK\_SIZE\_TOO\_LARGE:

return "block size is too large";

case IOError::SOURCE\_LARGER\_THAN\_DESTINATION:

return "source is larger than destination";

case IOError::DESTINATION\_LARGER\_THAN\_CAPACITY:

return "destination buffer is too small to fit uncompressed result";

case IOError::HEADER\_FLAG\_MISMATCH:

return "failed to match flags for compressed and decompressed data";

case IOError::NOT\_ENOUGH\_INPUT:

return "not enough input to proceed with decompression";

case IOError::ERROR\_SOURCE\_BLOCK\_CHECKSUM:

return "source block checksum doesn't match";

case IOError::COMPRESSED\_DATA\_VIOLATION:

return "error occurred while decompressing the data";

case IOError::ERROR\_DESTINATION\_BLOCK\_CHECKSUM:

return "destination block checksum doesn't match";

case IOError::EMPTY\_RECORD:

return "can't write an empty record";

case IOError::MALFORMED\_MEMORY\_RECORD:

return "can't write malformed record";

case IOError::UNSUPPORTED\_OUTPUT\_TYPE:

return "output data type is not supported";

case IOError::OTHER\_ERROR:

default:

return "unknown error occurred";

}

}

} // namespace

IOError::IOError(Status status): twml::Error(TWML\_ERR\_IO, "Found error while processing stream: " +

messageFromStatus(status)), m\_status(status) {}

} // namespace io

} // namespace twml