

This document refers to a box of technical reports in the Computer History Museum's collection, described under catalog number 102748586.

The following technical reports in this box have accompanying descriptions:

#### VDT workplace design H.F. handbook

"This topical brief focuses on the relation of physical problems to designing workplaces for VDTs."

#### Weight and surface temperature

"The purpose of this paper is to collect and structure known information on the topic of weight into one place, providing a quick, consistent answer to the myriad inquiries Human Factors has received on the topic."

#### Chairs

"The primary purpose of this report is to compare candidate chairs to ergonomic standards for office furniture. This document reports only an assessment of available chairs on the market. SEE ALSO DEC-TR 187, DEC-TR 219."

#### Liberty Net a message-based local network

"This document describes the design of Liberty Net and the prototyping experience."

#### Liberty Net authentication and name server

"The authentication and name server of Liberty Net implements a single, network-wide naming service, available only to entities that can be authenticated as valid Liberty Net users."

#### Liberty Net file service

"This document describes the file service provided in Liberty Net; specifically, the philosophy behind the design of the Liberty Net file server and the functionality of the file server and file clerks."

#### Technology transfer model: process design and support

“Technology transfer denotes the complex communication phenomenon involved... from an R&D establishment through different stages to utilization.”

Remote procedure call generator

“This document describes a tool developed to provide a remote procedure call interface between arbitrary clients and servers within the Liberty Net.”

Byron mail system-a Liberty Net application

“This paper presents a brief overview of the final design and development of Byron, the Liberty Net mail system.”

Some roles for human factors in enhancing office productivity

“This report addresses the problem of low office productivity caused by the lack of development of and investment in good tools for office work.”

Visual fatigue and VDTs: the problem, its nature, and management

“The purpose of this paper is to review both the scientific and popular literature to better understand visual fatigue as it relates directly to the design and use of Visual Display Terminals (VDT's).”

Biomechanical evaluation

“The purpose of this documentation is to report both the nature and results of an Human Factors evaluation of the low profile VT100 keyboard.”

Table-lookup algorithm for software computation of cyclic redundancy check CRC

“Cyclic redundancy checking (CRC) is an error-detection method involving a division of a data stream by a CRC polynomial. The report presents a method to calculate feedback terms in advance and then use a table lookup on these to obtain CRC value.”

Experimental evaluation of hierarchical locking in a database system

“The goal of the work presented here was to experimentally investigate and quantify the impact of hierarchical locking on the transaction throughput performance.”

CIM: breaking down the walls between engineering and manufacturing

“Computer Integrated Manufacturing (CIM) may be described as the application of computers and electronic communications to an entire manufacturing corporation, including the integration of CAD/CAM, MIS, office automation and factory automation.”

Comparative analysis on chairs

“This is an addendum to DEC-TR 171, Chairs, July 1982. SEE ALSO DEC-TR 219.”

Final report on proposed TOPS-20 security enhancements

“This report contains a survey of existing TOPS-20 security features and a set of proposals to enhance the security of TOPS-20.”

Effects of keyboard angle and tactile feedback on the performance and preference of users

“A study was done to determine what part tactile feedback plays in the performance of a typing task.”

Concurrency control and recovery in distributed data base systems

“This report is a compendium of recent research in distributed data base concurrency control and recovery, performed at Harvards Database System Research Group. The report includes six (6) papers.”