

Norsk Data A.S
 Postbox 4, Lindeberg Gård
 OSLO 10, N O R W A Y

S I N T R A N I V

Product Description

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12.05.1981

tim stevens

1. INTRODUCTION.

1.1. Sintran 4 design highlights

Sintran 4 is an operating system for the NORD-100 and NORD-500 computers.

The system will cover a wide range of application areas to allow integrated solutions for application functions.

High reliability and security. A program system can be split into separate protected address domains with controlled communication. The file system contains checkpoint and fallback mechanisms, and extensive access control for security. Sintran 4 is a multicomputer operating system and the configuration transparency provides easy reconfiguration if a component fails. Data streams can be split into two or more identical streams to be stored or processed at separate places.

Good user interface, for terminal users, application programs and system operation. It is easy to expand the user interface with new functions. It is also easy to implement special user interfaces as packages running under the standard system interface.

Efficiency. Especially I/O, such as discs and communication lines, are used at maximum speed. The module structure of Sintran 4 may be used for a wide range of configuration sizes, and provides easy expansion of system capacity by connecting more computers to a Sintran 4 system.

Economy. The system is written in a high-level, machine-independent system programming language (PLANC). This, together with the use of isolated modules, makes system generating, maintenance, extension and education easy, and gives good portability.

The system support multiprocessing, as well for geographical distributed processing as for configuring for a given processing power. Using the principle of communicating isolated processes, user programs and major parts of the operating system can be configuration transparent.

Application areas:
Timesharing systems
Business and office systems
Process Control Systems
Scientific Oriented On-Line Systems
Data Communication Systems
Data Acquisition systems

1.2. Hardware configuration

1. Single NORD-100

27.03.1981

SINTRAN-4 Reference Manual

P R E L I M I N A R Y D R A F T

ND 60.???.01

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