

Distributed NC Application Service

A Customized DNC Solution for Large-Scale Manufacturers

digital



Digital Offers a DNC Solution Tailored to Meet Your Business Needs

Digital's Distributed Numerical Control Application Service (DNCAS) is designed to provide a totally customizable distributed numerical control (DNC) solution that can be adapted to meet your business needs. The power of DNCAS lies in its extensive array of "callable services," a software feature allowing application programmers to develop a DNC system with the exact features that your business requires. And these callable services can be used to enhance your DNC system over time, thus allowing you to "grow into" your investment in DNC automation.

But the expansion potential of DNCAS is not limited to software. A DNCAS solution can be implemented on a variety of hardware configurations and then expanded as manufacturing operations expand. The result? The cost of automation is distributed over time, so the initial investment is reduced. And, by offering compatibility with Behind-The-Tape-Reader hardware for serial-to-parallel conversion, DNCAS can be used with older equipment, so your investment in numerical control (NC) and computer numerical control (CNC) equipment is protected.

DNC Forms the First Step in a Larger Manufacturing Integration Strategy

A major benefit of implementing a DNC system is that it forms the first step in automating the shop-floor environment. With DNC, manufacturers connect existing islands of automation, establishing a network that will form the basis for future growth in integrated manufacturing solutions.

Digital's Distributed NC Application Service is offered as a set of Packaged Application Software Solutions that solve manufacturing managers' NC-related problems. With DNCAS, a reliable and efficient system for the electronic distribution of part programs from a central library eliminates the waste and inefficiency of outdated paper tape. DNCAS also provides connectivity among NC and CNC devices of all makes and models, replacing isolated devices with integrated DNC networks.

Highlights

- Centralized library management of part programs, CNC executives and graphics, tool list and tool setup files.
- Connection of VAX computers to NC and CNC devices.
- Command line interface for system management and a user-friendly, menu-driven interface for library management and device communication.
- Callable services for creating custom DNC library management and device communication applications.
- PE Editor software tool for developing device connections to specific shop-floor devices.
- Ready-made software connections to leading vendor devices and custom development of software connections required for any DNC solution.

DNCAS Brings Increased Shop-Floor Productivity

Implementing Digital's DNCAS solution increases shop-floor productivity as it decreases operating costs. Greater management control over production is offered through a centralized DNC security system with varying levels of restricted access. Centralized control decreases waste from unauthorized or improper use of equipment and eliminates the use of obsolete or incorrect tapes. Expenses associated with the use of cassettes, paper tapes, or floppy disks are also eliminated. And, the increased speed of distribution, loading, and reading of part programs offered by DNCAS brings significantly increased machine tool utilization and increased productivity of factory personnel.

DNCAS Adapts Easily to Any Factory Environment

Digital's DNCAS solution can be adapted to a wide range of hardware configurations and virtually any factory environment. For small-scale

applications, it can be implemented as a standalone system with direct connections to machine control units. When more flexible configurations are needed, terminal servers can be used with the added benefit of offloading I/O-intensive tasks from the VAX host. A Local Area VAXcluster extends the clustering advantages of increased power and availability of system resources to DNCAS software installed on MicroVAX systems. And, if high availability and high performance are critical, DNCAS software installed on a CI-based VAXcluster allows continued access to part program databases in case of node failure.

DNCAS Offers Sophisticated Device Connection Capability

Unlike other DNC systems, Distributed NC Application Service is not limited by a narrow range of specific device connections with very basic capabilities. DNCAS provides a software development tool, the PE Editor, for creating a connection to virtually any NC or CNC device— not only those on the factory floor today, but those that will be added to the network in the future. And, the connections that you create can utilize sophisticated features of today's NC and CNC machine controllers such as displaying current device status and listing part programs stored in device memory.

Successful Integrated Manufacturing Solutions from Digital

At Digital, we understand that computer technology provides only the potential for integration excellence. That is why we offer an Enterprise Services program to help you integrate human and organizational requirements with business goals and

advanced technology to create total business solutions. Digital's Enterprise Integration Services consultants work in partnership with you to understand your specific business problems and employ proven tools and methodologies in building solutions tailored to meet your business needs.

Digital—An Industry Leader in Systems Integration

Digital offers a portfolio of Enterprise Services that support the four stages of enterprise-wide integration— planning, design, implementation and management. And best of all, integrated manufacturing solutions from Digital are delivered and supported by a worldwide network of 40,000 distinguished service professionals— experts with a proven track record in delivering integration in everything from small projects to enterprise-wide solutions.

Delivery

This Packaged Application Software Solution Service is delivered by local Digital consultants and includes software, documentation and user orientation. It is covered by a 90-day warranty.

For more information about Distributed NC Application Service, contact your Digital representative.

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