

## Profile

**Entrepreneurial software performance engineer** with 18 years experience helping companies build, market, and deploy highly scalable applications. Motivated, hard working, creative, and productive team player with a proven track record of measuring, improving, and predicting the performance of high volume mission critical applications. Key competencies;

- Software lifecycle performance methodology
- Profile, analyze and improve distributed application efficiency and scalability
- SQL tuning (SQL Server, Oracle)
- Server and network capacity planning
- Automated performance load testing
- Analyzing complex systems
- High availability / failover testing
- Performance modeling
- Team and project management

## Technical Experience

Applications: SAP R/3, Vendavo, Oracle Financials, PeopleSoft, Smart Stream

Databases: Oracle, MS SQL Server, Sybase

Operating systems: Windows, Unix (Solaris, HP-UX, Linux), VMS, RSX, RSTS/E

Technologies: Apache, IIS, Weblogic, WebSphere, Java/J2EE, SOAP, Citrix

Testing and monitoring tools: OpenSTA, Mercury, Rational, JProbe, Eclipse, Scapa

Programming languages: VB, C++, Powerbuilder, Fortran, OPS5

## Accomplishments

- Provided capacity planning and tuning guidelines for SAP R/3 and Oracle Financial clients using Digital Equipment computers. (1988-1993)
  - Started a performance engineering team at Dun and Bradstreet software. Developed charter, defined methodology, hired and mentored performance engineers. Provided capacity planning, configuration, and tuning guidelines to IBM, HP, Digital, and SUN for SmartStream ERP software. (1993 – 1998)
  - Helped Prudential Insurance build and implement a high performance replacement to their existing accounting software. (1998-2001)
  - Helped CheckFree characterize and reengineer an application to secure business with the Philadelphia Federal Reserve Bank. Fifty fold improvement in scalability achieved with an already mature and efficient system. (2003-2005)
  - Load testing, failover testing, tuning, and capacity planning for Kronos, Houghton Mifflin Kaplan, FTI, UPS Logistics Technologies, and Vendavo (2001-2006)
  - Load testing, failover testing, database optimization, server and network capacity planning for Dell's battery recall web site (2006).
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## Professional Experience

Performax Inc, Hollis, NH

1998 - Present

### President and Principal Consultant

#### Achievements

- Sold and delivered performance engineering services including application architecture reviews, performance characterization, capacity planning, code optimization, and system & database tuning.
- Contributed to the awareness, stability, and functionality of the open source load testing tool OpenSTA (funded development in excess of \$10,000)

#### Responsibilities

- New Business development
- Performance engineer

Technology Solutions Company, Chicago, Illinois

1997-1998

### Senior Principle Consultant

#### Achievements

- Performance testing and capacity planning for Prudential's data warehouse
- Business plan for performance engineering practice and benchmark center

#### Responsibilities

- Defined and delivered performance engineering services
- Application and database tuning
- Application architecture reviews

Dun and Bradstreet Software, Framingham, MA

1993-1996

### Manager Performance Engineering

#### Achievements

- Capacity planning and tuning for SmartStream on HP, SUN, Digital, and IBM servers
- Created and managed a well respected performance team
- Designed a custom load generator for performance testing

#### Responsibilities

- Personnel recruitment, mentoring, and management
  - Budgeting for performance team salaries and equipment
  - Technical marketing advice to all D&B Software partners
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Digital Equipment Corporation, Maynard, MA  
1983-1993

**Performance Characterization Engineer**

Achievements

- Capacity planning and tuning for Oracle Financials, SAP R/3, Dun & Bradstreet Millennium on VAX/VMS servers and clusters
- Graphics programming for Navy flight simulator, China Lake CA.
- UI programming for Satellite command and control system (Rockwell)
- Benchmarked 2000 user system for US Veterans Admin (SAIC)

Responsibilities

- Ensure 3<sup>rd</sup> party financial applications run optimally on VAX/VMS minicomputers
- VMS performance monitoring and tuning specialist (SPM, VPA)
- Technical marketing for VMS and Digital's artificial intelligence products
- Configure VAX clusters for high availability

E.R. Squibb and Sons, Princeton NJ  
1981-1983

**Systems manager**

- Molecular modeling team member. Developed real time three dimensional animation software that allowed researchers to visualize and manipulate images of complex molecular structures on Evans and Sutherland picture systems
- Developed database access routines to efficiently interface an energy minimization program (AMBER) to the Cambridge Crystallographic Database and data from Squibb's crystallography department
- System manager for VAX/VMS and Evans and Sutherland graphics systems
- Analysis, design and programming for a world wide cost control and inventory system

K-Squared Systems, Princeton NJ  
1980-1981

**Sr. Programmer Analyst**

Analysis, design and programming for a turn-key fleet maintenance solution.

Plasma Physics Laboratories, Princeton NJ  
Summer 1979

**Engineer's assistant**

Assisted engineers in porting and executing programs to aid in the design and manufacturing of experimental fusion reactors.

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## **Testimonials / References** (contact information available on request)

Bernie is a master of performance characterization and all things performance related. His approach and methods are flawless and transcend the layman's need to thoroughly understand technology. I would highly recommend Bernie and Performax to any organization in need of his skills.

### **Dan Magni, Deloitte Consulting LLP**

Bernie's expertise and team approach kept our performance characterization project focused and on schedule. The recommendations made for improving production cluster capacity and availability have been implemented and their capacity planning guidelines will help us keep ahead of demand as our customer base grows. Performax is a pleasure to work with and I highly recommend using their services.

### **Greg Burke, Quality assurance analyst, UPS Logistics Technologies**

Bernie's commitment to our success reduced our risk and allowed us to realize the flexibility and cost savings expected from using an open source tool. Bernie Velivis at Performax is one of the best OpenSTA resources around and I highly endorse his expertise and commitment to customer service.

### **Matt Scher, Lead project developer, UPSLT**

Bernie Velivis helped us develop and implement a rapid performance measurement and improvement plan. He worked well with all levels of our development and services organizations to help meet the aggressive goals and timeframes. In a short time, his adaptability, experience, teamwork, and deep base of knowledge made him valuable to our company. I would definitely recommend using Performax again.

### **Brad Foohey, Vice President CheckFree Professional Services**

Bernie's is adept in all aspects of performance engineering. He resolved both batch and on-line performance issues mitigating significant exposure with our customer and instituted a methodology for predicting product performance.

### **Kevin Wagner, President AI2 Inc**

Bernie Velivis is a cornerstone of OpenSTA's community and working with him is always a pleasure.

### **Dan Sutcliffe, OpenSTA caretaker and President tcNOW**