

Michael Neuffer

Competences

Michael Neuffer
Senior System Engineer
German citizen,
born: 15.04.1971

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- focus:** Murex, UNIX and storage design and administration.
Design and implementation of business critical infrastructure.
- studies:** Commercial Information Technology, University of Koblenz
- languages:** German (native), English
- memberships:** IEEE, USENIX, SAGE, LOPSA
- skills (overview):**
- Operating Systems:**
Administrative proficiency with:
Solaris 2.x (SPARC), Debian GNU/Linux (Alpha, SPARC, x86, AMD64),
Windows 95/98/NT
Administrative familiarity with:
Solaris 2.x (x86), Solaris 1.x (Sparc), Irix 5.x/6.x, FreeBSD, NetBSD, MS-DOS, Windows 2000, Windows XP, DEC Tru64, Red Hat Linux, SuSE Linux
- Computer Languages:**
Proficiency with:
bash/ksh/sh, SQL, C, make, Perl
Familiarity with:
JavaScript, Modula-2, Pascal, Elisp, X86-Assembler, MIPS-Assembler, m68k-Assembler, Z80-Assembler
- Platforms:**
SUN E10000, E6800, E6500, E6000, E4500, E4000, E3500, E3000, E450, E420, E220, V880, Ultra 60, Ultra 30, Ultra 10, Ultra 5, Ultra 2, Ultra 1, 1000E, Sparc 20, Sparc 10, SUN ELC, Sparc Classic, Fujitsu Prime Power 650, Siemens RM200, RM400, RM600
DEC Multia,
SGI Indy, Indigo, Indigo2, Origin, PowerChallenge
- Peripheral Storage Hardware:**
Exabyte tapes ; DDS2/3/4 tapes ; DLT tapes; MO disks; CD-R/RW disks;
Various autochangers and jukeboxes; RAID systems

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Tools:

Sun Solstice Backup, SunNet Manager, CMU SNMP, UCD SNMP, BigBrother Network Monitor, Veritas Filesystem, ComFax, Asterisk, AutoSys, Tivoli Workload Scheduler (TWS), DataSynapse GridServer

Databases:

Sybase ASE, Oracle, Postgresql, Mysql

Storage Protocols:

SCSI, FC, iSCSI

SAN/NAS Hardware:

Brocade SilkWorm 12000, 3800, 2800, RaidTec SNAS FC, Gadzoox Cappellix 3000

Networking Protocols and Technologies:

IP; IPX; AppleTalk; NetBIOS
Ethernet/FastEthernet/GigabitEthernet, ISDN, TokenRing,
IEEE 802.11b/g Wireless LAN, V.90 Data Modem

Networking Hardware:

Cisco 800, 1600, 2500 series routers; Livingston Portmaster;
Allied Telesyn CentreCom hubs and switches

Networking Services:

DHCP; DNS; NFS; AppleTalk File Sharing Protocol; SMB/CIFS;
NIS/NIS+; SNMP; SMTP; LDAP; RADIUS

Networking Service Implementations:

Linux packet filtering and TIS FWTK application gateway firewalls;
NetAtalk AppleTalk package; Samba; Apache, Roxen; University of
Washington IMAP server; University of Washington and Qualcomm
POP servers; postfix, qmail and sendmail SMTP servers; Cistron and

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Projects:

11/2006 **Murex and Unix Architecture, Performance tuning and Murex support**
- today

Upgrades: Oracle 9.2i to 10g, Murex 2.11.18 to 2.11.34, MLC 1.5.2 to 1.5.4. Murex COM Module implementation; Performance tuning of the MxG2000 2.11 – Oracle implementation; Performance tuning of the MDCl and MLC; Development of purge procedures; improve, stabilize and tune EOD; Report development and performance tuning of all reports; General production and EOD support.

Environment: Siemens AG, München

Role: Murex Technical Analyst, architect, developer, support

04/2006 **Murex SME, Architecture and Design, Troubleshooter**
- 10/2006 Implementation of a Murex 2.11 FX prototype for FO, BO and Risk Control including Murex Limit Controller (MLC), Actuate reports and realtime marketdata. Design and implementation of an online deal feed from EBS to Murex. Support and debugging of the deal migration from legacy systems (Fenics, Tomcat,...). Performance tuning of the Murex Installation and the Sybase servers.

Environment: Aozora Bank, Tokyo, Japan

Role: Murex SME, Analyst, Consultant, Troubleshooter

05/2003 **Murex support, Murex and Unix infrastructure design and implementation**
- 03/2006

MXG2000 upgrades from 2.9 to 2.10 to 2.. Implementation of Bonds, ABS and Schuldscheindarlehen (promissory notes), static data interface and price feed for Bonds, ABS and SS. Day-to-day Murex support (2nd & 3rd level) for FO, BO Risk Control and Accounting users. RTI support, MxML support, OLK support, development of reports (Mreport) and interfaces, various cleanups and trade purges. Unix, Sybase & Murex performance tuning and development of various tools and infrastructure improvements. Migration of production and development infrastructure from London to Frankfurt, EOD support, EOD migration to TWS.

Migration Sybase 12.0 to Sybase 12.5.3 (64bit, 4k pages), Operation and maintenance of various Murex environments (production, test/development, integration), housekeeping.

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Environment: Helaba Frankfurt

Role: Technical Analyst, architect, administrator, developer, support

08/2002 **Murex support and report development**

- 5/2003 MX Rates 1.17.x, MXG2000 2.9 & 2.10, development of interfaces and reports. Performance tuning of the Murex Application and Sybase Database. Development of various little tools.

Environment: DZ Bank Frankfurt

Role: developer

04/2002 **iSCSI and WLAN R&D**

- 07/2002 Research on iSCSI and WIFI development for ScioByte enterprise solutions

Environment: ScioByte, midsize IT consulting house

Role: CTO, managing partner, senior developer

03/2002 **Brocade Training /Testing**

Hands-On Training on SilkWorm 12000. Testing/validation of new internal firmware releases, rebuilding/simulating the NASDAQ SAN infrastructure.

Environment: Brocade HQ, San Jose

Role: Student/Tester

11/1997 **Murex system support and infrastructure design**

- 03/2002 Murex Currency, Derivatives, MXG2000 2.8, SimPlus, SimBonds; System architect, performance tuning of the whole system - storage, OS, database, interfaces, overnight report batches etc.; migration over several hardware generations: Sparc10-E10000, Solaris 2.5.1-8, Sybase 11.0.3.3-12.0.0.1 and Murex releases: 1.15-1.16-1.17-MXG2000; xBASE to Sybase database backend migration on Murex Currency and Murex Equity; EOD procedure automation; specification, development and maintenance of the infrastructure surrounding the Murex installations and their interfaces to systems like Gloss, Devon, Swift, Computron etc.; support for incoming and outgoing trade feeds via OLK; overnight support; technical application support; front-, middle- and backoffice user support; production responsibility. '97-March '98 single-handed support of all Murex installations alone with just one developer on the Equity side and one developer on the Currency side to help out on

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business issues. From Q2 1998 on development of a 10+ support and development team. During this period the team managed by me was directly assigned to the department head.

Environment: Commerzbank & Commerz Financial Products (CFP)

Role: Technical Analyst, senior system engineer, team leader

01/1998

Infrastructure Design

- 06/1999

Design of a large SUN E10000 based infrastructure according to "Mindestanforderungen an das Betreiben von Handelsgeschäften der Kreditinstitute" (MaH) requirements

Environment: Commerzbank

Role: senior system engineer

08/1997

UNIX System and Summit Application Administrator

- 12/1997

High availability design and implementation, performance tuning of the UNIX and Database system. Design and implementation of a high availability cluster for Summit and the Sybase server. Consulting for application interface programmers. Technical Summit support. End of Day support. Sybase Support.

Environment: Commerzbank

Role: Technical Analyst, senior administrator

07/1997

UNIX and Network Consulting

- 08/1997

Performance measurements and analysis of various infrastructure designs and development of recommendations for improvements.

Environment: Commerzbank

Role: Technical Analyst, consultant

05/1997

Hardware Performance consulting

Performance measurements and analysis of various infrastructure designs. Development of recommendations for improvements to allow the replacement of SGI Equipment by cheaper standard PCs based on Linux for the digital cut and display workstations.

Environment: Industrial Light and Magic

Role: consultant

06/1996

Database engine development

- 04/1997

Design and implementation of a database engine with HA clustering and data partitioning capabilities. Support for the Solaris, FreeBSD and Linux Operating Systems included the design and development of Distributed Lock Managers and modified or new SCSI drivers and SCSI

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infrastructure.

Environment: Atlas Telecom, Key supplier of telecom industries

Role: designer, developer

- 01/1996 **Internet service providing consulting and maintenance**
- 06/1997 UNIX and Database consulting; custom programming; design and implementation of the internal network; configuration and installation of various servers and services; email, DNS, FTP maintenance, WWW, file servers and login servers.

Hosting of the Debian GNU/Linux projects core infrastructure. Design, implementation and maintenance of its services (master FTP server, mail, mailing lists, DNS and Web) including the new maintainer process.

Environment: iConnect Inc.

Role: chief operating systems engineer

- 10/1995 **Database application development**
- 03/1996 Development and support of a payroll management system in Gupta (Centura) SQL / Windows, development of course material for SQL training courses.

Environment: GodeSys, midsized IT consulting house

Role: programmer

- 1992 **Linux kernel programming**
- today **Mostly SCSI related work.**