

ITRON Newsletter No.16

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Upgrade of μ ITRON3.0 Specification (English version) announced

The English version of the μ ITRON3.0 specification has now been upgraded to Ver 3.02.00, in line with changes in the Japanese edition. As with the earlier version, it is being made available on line via the Internet.

To download the new edition, use anonymous ftp as explained below. The ftp site is `tron.is.s.u-tokyo.ac.jp` (IP address: 133.11.11.12), and the specification file is located in the directory `pub/TRON/ITRON/SPEC`.

If there is a demand for it, consideration is also being given to distributing the file on floppy disk. Please contact the ITRON Technical Committee for details. Note that the Japanese edition is published in book form and is available in bookstores; there are no plans to distribute it on line.

Downloading by anonymous ftp

For those who are connected to the Internet by a shell account and do not use ftp client programs like Anarchie (Macintosh) or FTP Client for Windows, the following procedure may be used to download files by anonymous ftp. An alternative for those with WWW access is to use a Web browser and download from the following site:

```
http://tron.is.s.u-tokyo.ac.jp/TRON
/ITRON/eng-spec.html
```

This explanation assumes the use of the standard Unix ftp command on a machine connected to the Internet.

Start by entering the following command line.

```
% ftp tron.is.s.u-tokyo.ac.jp
```

If you get an "unknown host" or similar response, use the IP address "133.11.11.12" instead of "tron.is.s.u-tokyo.ac.jp."

The following message should appear on your screen after you connect successfully.

```
Connected to tron.is.s.u-tokyo.ac.jp.
220 tron FTP server (Version ....
Name (tron.is.s.u-tokyo.ac.jp: xxxx):
```

For the **Name:**, enter "anonymous"; and for **Password:** enter your email address. Then proceed as follows when the ftp prompt appears.

```
ftp> cd /pub/TRON/ITRON/SPEC
```

```
ftp> dir
```

Here a list of available file names will be displayed. Enter the file name as follows.

```
ftp> get <file name>
```

The designated file will then be downloaded to your machine. For more details on using ftp, refer to the manual for your machine or online service.

ITRON-related Publications

Listed in another page are the publications prepared and issued by the ITRON Technical Committee as of August 1, 1995. The ITRON- μ ITRON Standard Handbook is a one-volume compilation of μ ITRON (Ver 2.0) and ITRON2 specifications. Each of the publications below can be obtained directly from the sources indicated.

The latest version of μ ITRON3.0 is now Ver 3.02.00. Changes made since the μ ITRON3.0 Standard Handbook was released (Ver 3.00.00) are noted in Newsletter No.5 and No.11, as well as in ITRON Standard Guidebook 2.

The recently issued ITRON Standard Guidebook 2, which is a general introduction to the ITRON specifications, deals primarily with μ ITRON3.0. Meanwhile, the earlier ITRON Standard Guidebook '92-'93 remains as a valuable reference for use with the μ ITRON (Ver 2.0) and ITRON2 specifications, even though the dates in its title are now past.

ITRON Open Seminar held in July

The ITRON Open Seminar took place July 20 in Tokyo. These seminars are held annually to introduce the latest ITRON specification implementations and

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ITRON-related Publications

Name	Type	Price	Publisher	Issued	ISBN No.
ITRON- μ ITRON Standard Handbook	Specification (Jap.)	4,800Yen	Personal Media Co.	1990	4-89362-079-7
μ ITRON3.0 Standard Handbook	Specification (Jap.)	4,000Yen	Personal Media Co.	1993	4-89362-106-8
ITRON/FILE Standard Handbook	Specification (Jap.)	3,000Yen	Personal Media Co.	1992	4-89362-092-4
ITRON Standard Guidebook '92-'93	Textbook (Jap.)	3,500Yen	Personal Media Co.	1992	4-89362-197-6
ITRON Standard Guidebook 2	Textbook (Jap.)	3,500Yen	Personal Media Co.	1994	4-89362-133-5
μ ITRON Specification Ver 2.01.00.00	Specification (Eng.)	12,000Yen	TRON Association	1989	–
ITRON2 Specification Ver 2.02.00.10	Specification (Eng.)	15,000Yen	TRON Association	1990	–
μ ITRON3.0 Specification Ver 3.02.00	Specification (Eng.)	–	TRON Association	1995	–

NOTES:

- Prices do not include consumption tax.
- The documents issued by the TRON Association are available to Association members at a special discount rate.
- English-language specifications are distributed free of charge on the Internet. Use anonymous ftp to access tron.is.s.u-tokyo.ac.jp [133.11.11.12]. The files are located at /pub/TRON/ITRON/SPEC.

other fruits of the ITRON subproject, and to present updates on such issues as the ITRON development environment. This year marked the fifth seminar in the series.

The theme of this year's seminar was, "ITRON Supportware: A Growing Store". The program, as listed below, included presentations on the checksheets developed to determine μ ITRON application compatibility, on development environments and middleware supporting ITRON, application case studies, and research trends. A late addition to the list of presenters was Joseph Rothman of the U.S. firm CARDtools Systems Corporation, who introduced his company's CASE tools. The hall was filled to capacity by the attentive audience of around 90 persons.

Date: Thursday, July 20
 Time: 10:00 am – 5:30 pm
 Place: Shinagawa Community Center "Kurian"
 (in Tokyo)

Program:

1. An update on the ITRON subproject
 Kiichiro Tamaru (Toshiba Corporation)
2. Compatibility of μ ITRON application programs
 Hiroaki Takada (Univ. of Tokyo)
 Yasuhiro Kobayashi (Fujitsu Limited)
3. Development environment support for ITRON
 "A real-time software environment for μ ITRON"
 Joseph Rothman (CARDtools Systems Corp.)
 Tomoyuki Kurihara (Andor System Support)
 "Real-time software development system RTIPLUS"
 Koichi Nakamoto (NEC Corporation)
 "TCP/IP library and file system for μ ITRON use"
 Hiroyuki Kato (AI Corporation)
4. ITRON application case studies and research trends
 "How the ITRON FA computer TB-110 is used"
 Shuji Yura (Japan Minicomputer Systems Co., Ltd.)

"Realizing a silicon TRON"

Takumi Nakano (Toyota College of Technology)

"Research on ITRON specifications

in the Sakamura Laboratory"

Hiroaki Takada (Univ. of Tokyo)

Nobuo Sakiyama (Univ. of Tokyo)

5. Special guest lecture: "The future of ITRON"

Ken Sakamura (Univ. of Tokyo)

In addition to the above presentations, workstations were set up in the hall running demonstrations of the ITRON-supporting development environments CARDtools and RTIPLUS. These proved of great interest to those in attendance.

A reception following the seminar was attended by around 40 persons.

ITRON seminars planned for China

As noted in Newsletter No.13, seminars are to be held in China later this year, as part of the effort to make the ITRON specifications more widely known outside of Japan. Identical seminars will be held in Beijing and Shanghai, on October 16 and 18, respectively. These "Japan-China Joint Workshops on ITRON Technologies" will be attended by a number of ITRON Technical Committee members and other representatives from Japan.