

April 2, 2024

Press Release

TRON Forum

Sixty percent or more of the share is held by TRON RTOS API for the API of embedded OS in use. This means TRON specification OS has been the most popular OS for the 25 consecutive times.

— TRON Forum has published to its members the “FY 2023 Survey Report on Embedded Real-time OS Usage Trends” for the first time in four years.

TRON Forum (Location: Shinagawa, Tokyo, Chair: Ken Sakamura, Professor Emeritus, the University of Tokyo), which is a proponent of TRON Project, and aims to establish the Open IoT environment that is free of restrictions imposed by organizations or applications by using open source, open data and Open API, has compiled “FY 2023 Survey Report on Embedded Real-time OS Usage Trends.” The report shows that approximately 60 percents of the share of “the API of embedded OS in use” is held by API of the T-Kernel specification API including  $\mu$  T-Kernel specification API, etc. and ITRON specification API. This means that the TRON RTOS family has occupied the topmost share for the 25 consecutive times since the start of the survey.

As a result of this survey, the following points can be noted.

- The TRON Real-Time OS (RTOS) family has been recognized as an IEEE Milestone, and the awareness overseas may have increased accordingly.
- TRON RTOSs are gaining wider recognition in Japan as well.

This survey has been held as annual measurements for 25 times so far at the venue of EdgeTech+ 2023 (Organizer: Japan Embedded Systems Technology Association: JASA, Venue: PACIFICO YOKOHAMA) and its predecessors. The latest FY 2023 Survey Report summarizes the result of the questionnaire answered by the respondents through the special website for this survey and the visitors to EdgeTech+ 2023 which was held from November 15 to 17, 2023.

TRON Forum publishes the whole content of the survey result on the members-only web pages for Executive Committee/A-i-B-O/Academic members. If corporations and the members other than the above need the survey result, “Limited to a division only readership version (100,000 yen excluding tax)” and “Company-wide readership version (200,000 yen excluding tax)” will be on sale through the web shop (<http://www.personal-media.co.jp/webshop/>) operated by Personal Media Corporation, one of the Executive Committee members of TRON Forum from the middle of April.

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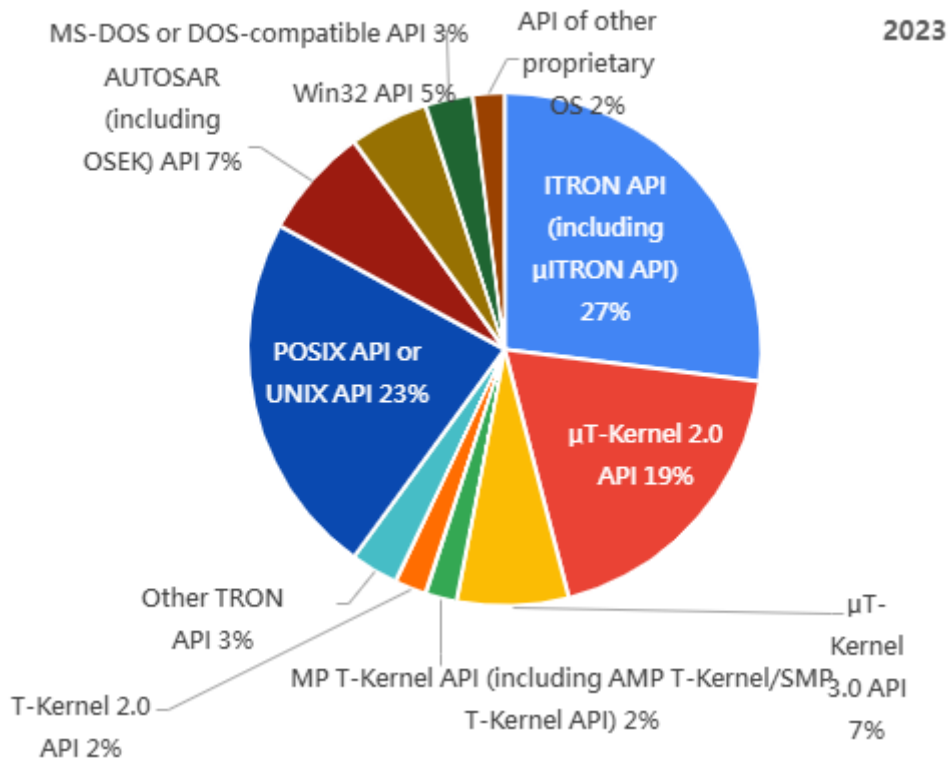
URL: <https://www.tron.org/>

## Overview of FY 2023 Survey Report on Embedded Real-time OS Usage Trend

### 1. Survey details

- Date: November 15–17, 2023
- Venue: EdgeTech+ 2023 at PACIFICO YOKOHAMA
- Method: Paper-based questionnaire at the venue or entry through the special website for the survey
- The number of the respondents: 72 (66 people with valid answers)

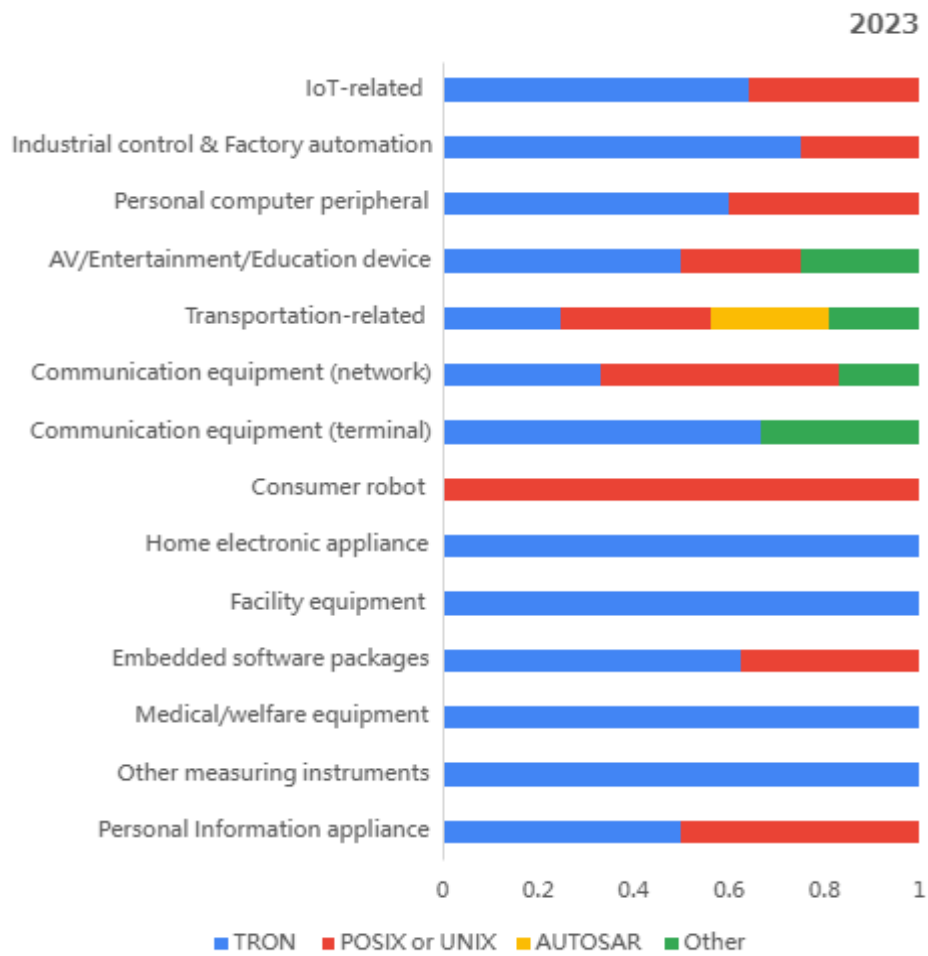
### 2. API of embedded OS (excluding non-use of OS, in 2023)



Number of valid responses: 84  
(Multiple answers allowed)

- Approximately 60 percent or more of the share is held by ITRON specification API and T-Kernel specification API.

### 3. API of embedded OS in different application fields (in 2023)



Number of valid responses: 85

While the trend remains unchanged from the previous survey, the share of TRON RTOS family API increased in IoT-related devices, industrial/factory automation devices, PC peripheral areas, and electronic home appliances.