

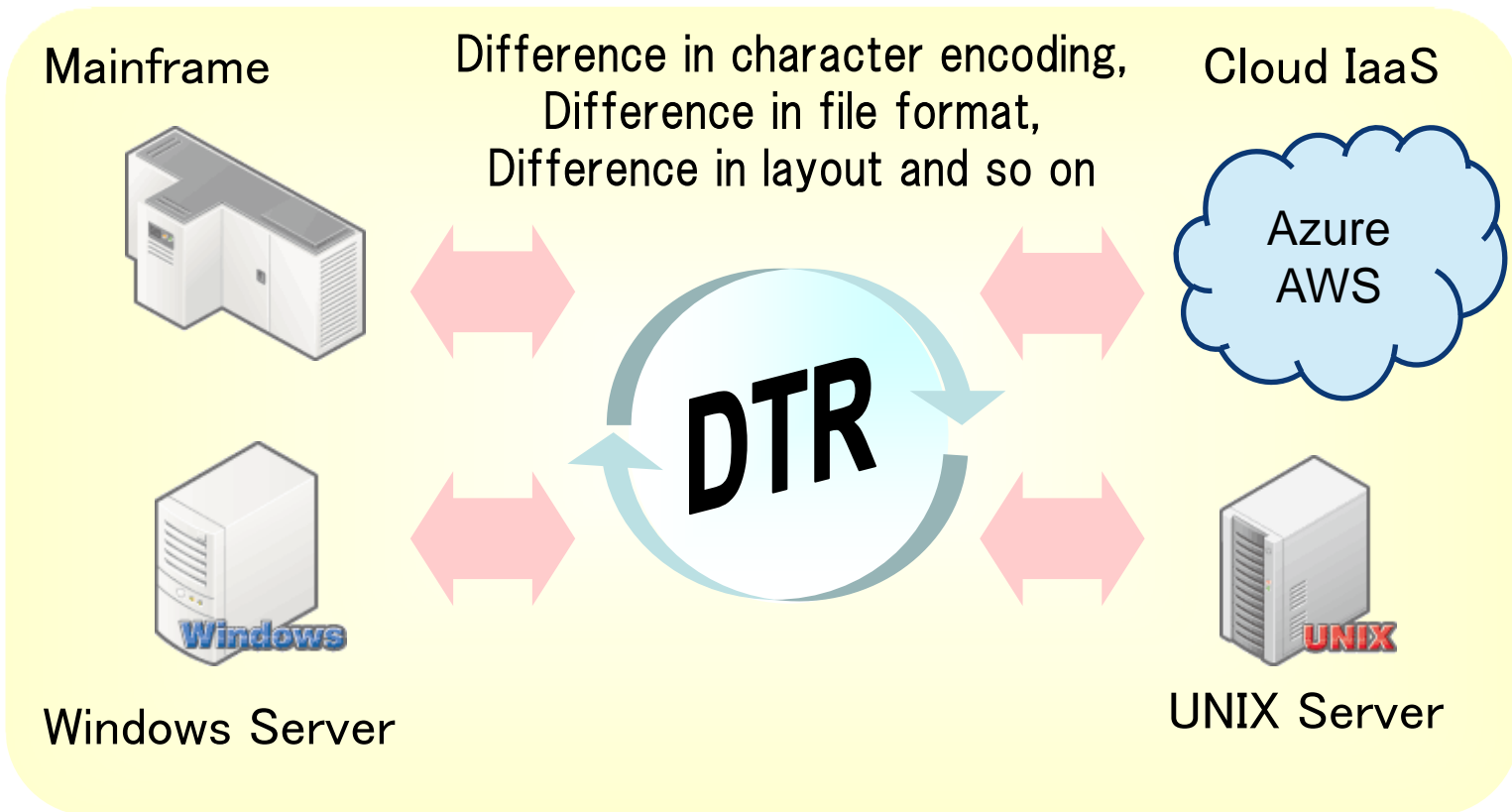
Introduction of DTR Data Conversion Software

Nihon Unisys Ltd.



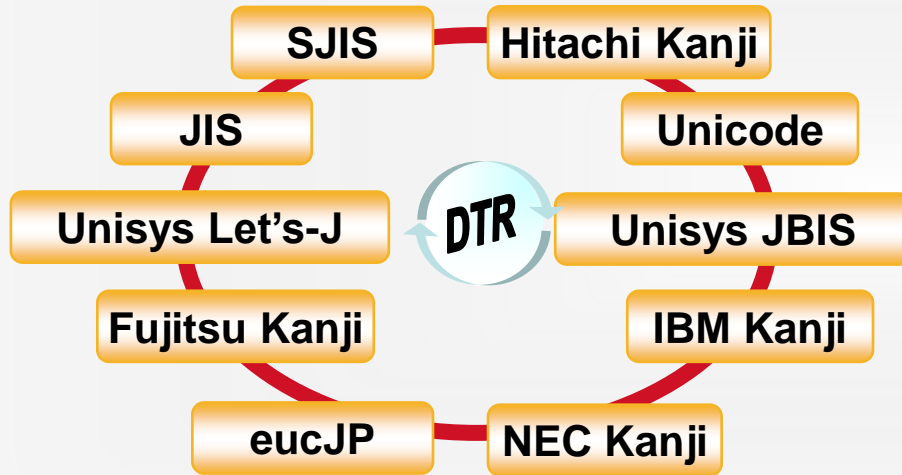
Foresight in sight

- DTR is an excellent data conversion software that enables powerful interconversion of different data formats across platforms and systems.



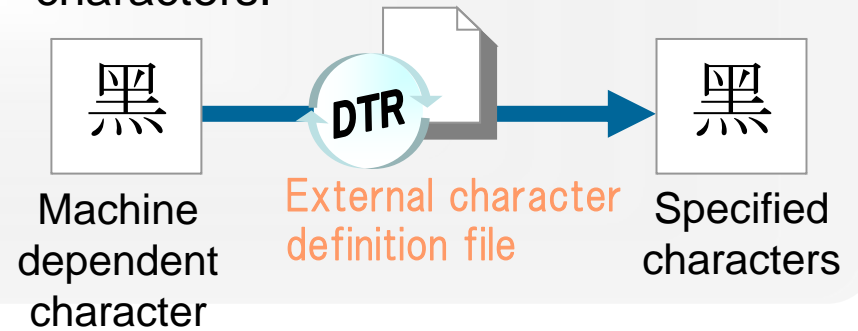
- Mutual Conversion of Various Kanji Codes and File Formats
- Flexible Editing of Record Layout
- Support for a Variety of Platforms
 - Windows, Linux, etc.
- Linkage with Other Systems
 - HULFT, JP1, and API calls from user programs
- Advantages of DTR
 - Meticulous data conversion
 - Continuous improvement
 - Rich experiences in implementation

Supported Kanji Codes



Convert external characters

Users can define the conversion from external characters to specified characters.



Supported File Format

Disk Media	Magnetic Tape Media
<ul style="list-style-type: none"> -Text file -Fixed-length format COBOL sequential file -Variable-length disk file -Text file in CSV format -XML -JSON -Database 	<ul style="list-style-type: none"> -Fixed-length tape file -Variable-length tape files in IBM format -Variable-length tape file for information interchange -Indefinite format tape file

record layout editing

before conversion (multi-layout)

key 1	Character	Packed decimal	Kanji	Decimal number	Kanji
key 2	Decimal number	Kanji	Packed decimal	Character	

after conversion (single-layout)



Decimal number	inserted data	Character	Kanji
Decimal number	inserted data	Character	Kanji

Corresponding item type

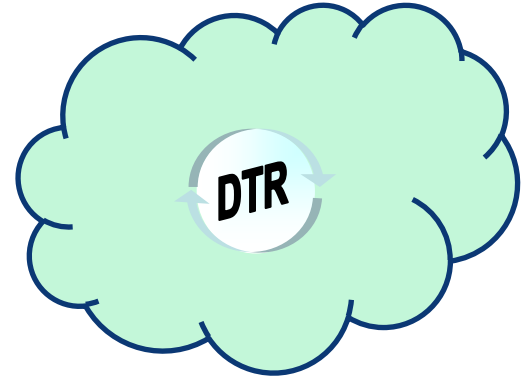
Character type	Character item, Kanji item, mixed character-Kanji item
Numeric Type	Signed decimal, Leading signed decimal, Binary (signed or unsigned), Packed decimal (signed or unsigned), Bit numeric item (signed or unsigned)
Others	Hexadecimal, Binary digit, No type, Output skip, Date item



Windows



Virtual OS on Hyper-V, VMWare, etc.



IaaS such as Azure and AWS



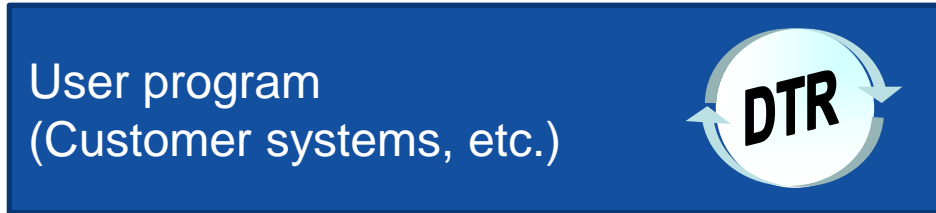
Red Hat Linux, CentOS,
Amazon Linux 2, Solaris, HP-UX



Supported platforms

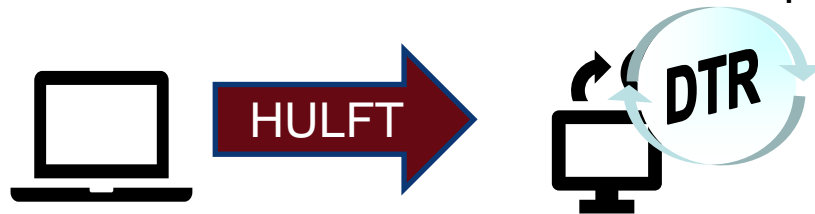
OS	Windows 8, 10, 2012, 2019 RHEL CentOS AmazonLinux2 Solaris HP-UX Java
Virtual Server	Any virtual server running OS supported by DTR such as Hyper-V, ESXi, etc.
IaaS	Any IaaS running OS supported by DTR such as AWS, Azure, etc.

- API calls from user programs



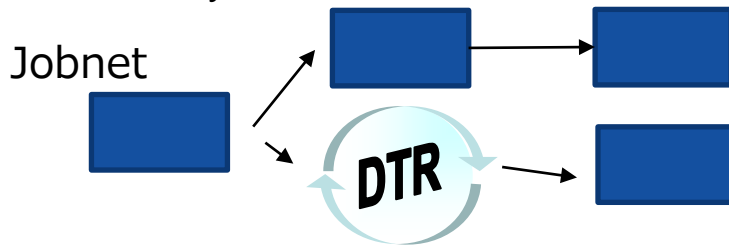
- Lightweight and low memory usage
- Able to process huge data of tens of GB

- File transfer & data conversion in cooperation with HULFT



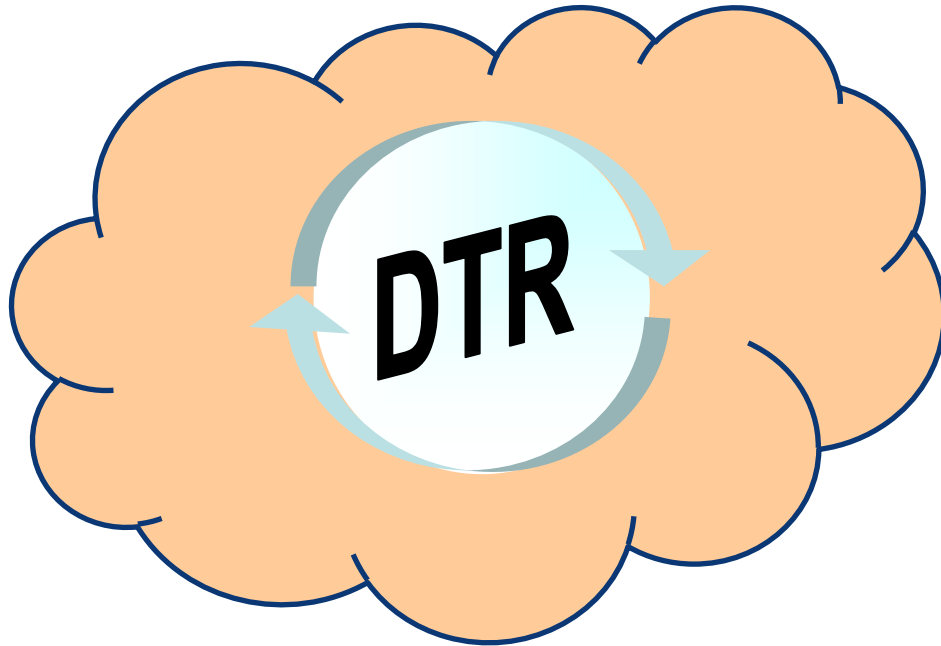
- Embedded as JP1 or JobStar jobs

- Always returns a normal/error return value, making it easy to embed.



Link with other systems and convert data transparently.

- **Fine-grained data transformation to meet the most demanding needs**
 - More than 40 setting options (text: 4 settings, csv: 6 settings, etc.)
 - Ninety percent of the conversion patterns inquired about by customers were feasible with the DTR parameter. (Using the API calls of DTR, the conversion was almost 100% possible.)
- **Evolving every year, based on user requests**
 - Upgraded data conversion-related functions in detail
 - Support for new technologies, such as cloud support and IoT/AI collaboration
 - In-house development makes it easy to incorporate requests
- **Almost no trouble or bugs**
 - Stable operation of more than 900 systems in the financial, public sector, manufacturing, distribution, and electric power industries
 - Universal system testing tools are in place

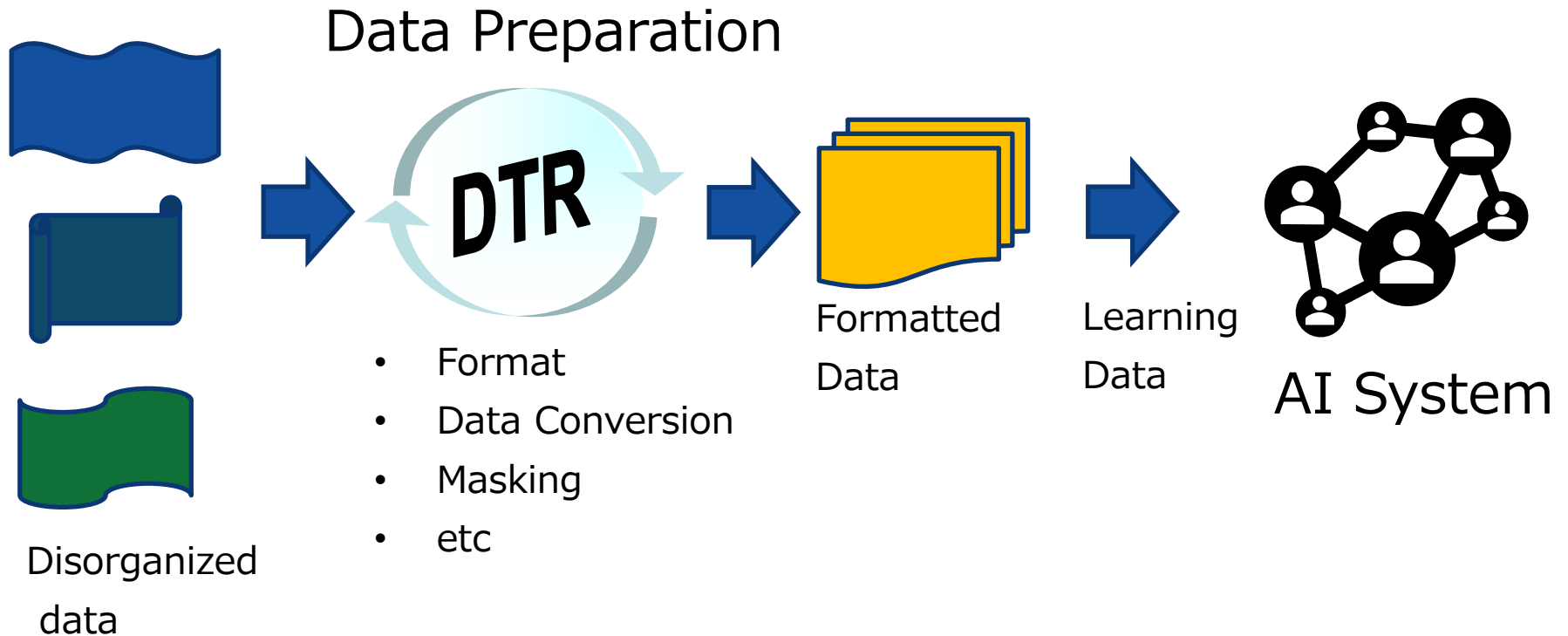


- Conforms to standard Windows English version on Azure/AWS

*Since DTR outputs messages in Japanese, you need to apply the Japanese language pack.

- Passed extensive system tests

- **DTR is now a popular choice for Data Conversion Software as it can be widely used on Azure/AWS**



- **DTR meets the requirements as a Data Preparation Tool for AI Systems!**



Data from
IoT sensors

Various data conversions

- Character item, Signed decimal, Leading signed decimal, Binary, Packed decimal, Bit numeric item, Hexadecimal, Binary digit, Date item, etc...
- Various data form can be processed at the same time

- **DTR can be used for data processing from IoT sensors due to its various data conversion and simultaneous processing of many data formats.**

Foresight in sight

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