

## IX.3.0B-SYSTEM-UDTYPE SUBROUTINE UDTYPE

### Description

Subroutine UDTYPE reads file DATATYPE [[Hyperlink](#)] and returns the data type codes and their attributes.

See Chapter I.4-DATATYPE-TS [[Hyperlink](#)].

### Calling Sequence

```
CALL UDTYPE (SRCH,MTYPE,NTYPE,TYPE,DIMN,UNIT,MISS,NVAL,TIME,NADD,
            IPRC,ISTAT)
```

### Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
SRCH	Input	A4	1	Search code: 'FCST' = return data types with Forecast System application code 'CALB' = return data types with Calibration System application code 'BOTH' = return data types with both CALB and FCST application codes 'ALL' = return all codes
MTYPE	Input	I*4	1	Maximum number of data types
NTYPE	Output	I*4	1	Number of data types found
TYPE	Output	A4	MTYPE	Data type code
DIMN	Output	A4	MTYPE	Dimension code <u>1</u> /
UNIT	Output	A4	MTYPE	Code for standard Forecast System internal units <u>1</u> /
MISS	Output	I*4	MTYPE	Missing data indicator: <u>2</u> / 0 = no missing data allowed 1 = missing data allowed
NVAL	Output	I*4	MTYPE	Number of values per time interval: <u>2</u> / -1 = number may vary

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
TIME	Output	A4	MTYPE	Code for time scale: <u>1</u> / 'MEAN' = mean value 'ACCM' = accumulated value 'INST' = instantaneous value
NADD	Output	I*4	MTYPE	Number of pieces of additional information for data type <u>2</u> /
IPRC	Output	I*4	MTYPE	Indicator specifying which component can write the data type: <u>2</u> / -1 = not defined 0 = Preprocessor Component 1 = Forecast Component
ISTAT	Output	I*4	1	Status code: 0 = no errors 1 = maximum data types exceeded 2 = invalid search code 3 = error in decoding input file

Notes:

1/ Will not be filled if set to 'NONE' on input.

2/ Will not be filled if set to -99 on input.