

INTERNATIONAL STANDARD



2711

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Information processing interchange — Representation of ordinal dates

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2711 was drawn up by Technical Committee ISO/TC 97, *Computers and information processing*.

It was approved in July 1972 by the Member Bodies of the following countries :

Australia
Canada
Czechoslovakia
Egypt, Arab Rep. of
France
Germany
Ireland

Italy
Japan
Netherlands
New Zealand
Poland
Portugal
Romania

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Spain

Switzerland

Thailand

United Kingdom

U.S.A.

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Belgium
Sweden
Turkey



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AMENDMENT SLIP

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MODIFICATION TO FOREWORD *(Inside front cover)*

The responsibility of this International Standard has now been transferred to Technical Committee ISO/TC 154. "ISO/TC 154" therefore replaces "ISO/TC 97" at the 10th line of the Foreword.

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Information processing interchange — Representation of ordinal dates

1 SCOPE

This International Standard establishes a system of representing ordinal dates to facilitate the interchange of data among data systems.

2 FIELD OF APPLICATION

This International Standard shall be applied whenever representations of ordinal dates are used in the interchange of data among data systems.

The ordinal date is commonly used in cases where machines are frequently utilized to carry out a systematic sorting in the order of succession of dates or to determine the number of days elapsed between two dates.

In other applications utilizing numeric representations of calendar date, the provisions of ISO/R 2014 shall apply.

3 REFERENCE

ISO/R 2014, *Writing of calendar dates in all-numeric form*.

4 RULES FOR REPRESENTING ORDINAL DATES

4.1 Composition

An ordinal date is composed of the time elements year and day of year.

4.2 Sequence

The sequence of the time elements shall be from high order to low order (left to right), year, day of year.

4.3 Representation of time elements

The year shall be represented as four digits with the option of omitting the two high order digits (commonly referred to as century) as required in applications where the century

is to be implied. In a like manner, the four digit year may be truncated to the low order single digit in those applications where the century and decade are to be implied. When the year is truncated to two digits, the term "year of century" shall be used to identify the representation; when it is truncated to one digit, the term "year of decade" shall be used to identify the representation.

The day of year shall be represented by a three digit number from 001 (January 1) to 365 or 366 (leap year) for December 31 (see Table).

The time elements year and day of year may be represented and used independently or collectively as required. When used collectively the high to low sequence shall be maintained, i.e. year-day of year.

4.4 Separators

Separators are not required and consequently shall not be used when interchanging data among data processing systems. However, if required to facilitate human understanding, a hyphen (-) or a space shall be used between the year and day of year.

5 EXAMPLES

For the interchange of data among data systems, 1967 July 1, 1 July 1967, and July 1, 1967 will be represented in ordinal date form as 1967182. Alternatively, when the year is truncated to two or one digit(s), these will be represented as 67182 or 7182.

When separators are used to facilitate human understanding these will be represented as : 1967-182, 67-182, or 7-182 (with hyphens) or as 1967 182, 67 182, or 7 182 (with spaces).

TABLE — Numerical calendar

Day of month	Day of year											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	001	032	060	091	121	152	182	213	244	274	305	335
02	002	033	061	092	122	153	183	214	245	275	306	336
03	003	034	062	093	123	154	184	215	246	276	307	337
04	004	035	063	094	124	155	185	216	247	277	308	338
05	005	036	064	095	125	156	186	217	248	278	309	339
06	006	037	065	096	126	157	187	218	249	279	310	340
07	007	038	066	097	127	158	188	219	250	280	311	341
08	008	039	067	098	128	159	189	220	251	281	312	342
09	009	040	068	099	129	160	190	221	252	282	313	343
10	010	041	069	100	130	161	191	222	253	283	314	344
11	011	042	070	101	131	162	192	223	254	284	315	345
12	012	043	071	102	132	163	193	224	255	285	316	346
13	013	044	072	103	133	164	194	225	256	286	317	347
14	014	045	073	104	134	165	195	226	257	287	318	348
15	015	046	074	105	135	166	196	227	258	288	319	349
16	016	047	075	106	136	167	197	228	259	289	320	350
17	017	048	076	107	137	168	198	229	260	290	321	351
18	018	049	077	108	138	169	199	230	261	291	322	352
19	019	050	078	109	139	170	200	231	262	292	323	353
20	020	051	079	110	140	171	201	232	263	293	324	354
21	021	052	080	111	141	172	202	233	264	294	325	355
22	022	053	081	112	142	173	203	234	265	295	326	356
23	023	054	082	113	143	174	204	235	266	296	327	357
24	024	055	083	114	144	175	205	236	267	297	328	358
25	025	056	084	115	145	176	206	237	268	298	329	359
26	026	057	085	116	146	177	207	238	269	299	330	360
27	027	058	086	117	147	178	208	239	270	300	331	361
28	028	059	087	118	148	179	209	240	271	301	332	362
29	029		088	119	149	180	210	241	272	302	333	363
30	030		089	120	150	181	211	242	273	303	334	364
31	031		090		151		212	243		304		365

NOTE — In the leap year “1” has to be added in each case after February 28.