Memo CP-D/327

06 July 2001

From: V. Zerkin

To: Distribution

Subject: **FORTRAN Subroutines for reading data from**

EXFOR Dictionaries on VMS, Windows, Linux

Reference: **Actions of the 2001 NRDC Meeting:**

A28:	**McLane, Zerkin**	To investigate the production of a system independent version of the CHEX code.

In order to fulfill my part of the Action I have done following:
1. Version of Dictionaries with 'Direct-access' instead 'Indexed' files was created:
    1.1. Schema of 'Direct-access' Dictionaries, which can allow to emulate reading of 'Indexed' Dictionary files
    1.2. New DANLOAD for loading DANIEL.BACKUP to 'Direct-access' Dictionaries
    1.3. Set of FORTRAN Subroutines to read information from Dictionaries:
        1.3.1. For 'Indexed' Dictionaries on Alpha/VMS
        1.3.2. For 'Direct-access' Dictionaries (platform independent, FORTRAN-77)
2. Tests of the software were performed:
    2.1. Software to work with 'Direct-access' Dictionaries: on VMS, Linux, Windows
    2.2. Software to work with 'Indexed' Dictionaries: on VMS
    2.3. Tests were done with several EXFOR samples on all 4 variants and compared with output of original CHEX/VMS.

Results of this work (FORTRAN codes) were sent to NNDC.

Note. Set of Subroutines for 'Relational' Dictionaries can be done as soon as development of new Dictionary relational database will be fully completed.

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