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# Release of data libraries and filename conventions

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# Contents

- Recent world NDL releases
- ENDF archive of IAEA
- Should we unify library releases and filenames?

# Recent world NDL releases

- n-CENDL-3.2.zip expands into
  - n-CENDL-3.2/CENDL-3.2/**26-Fe-056.C32**  
95-Am-242m.C32 (09-F-019.C32)
- ENDF-B-VIII.0\_neutrons.zip expands into
  - ENDF-B-VIII.0\_neutrons/**n-026\_Fe\_056.endf**  
n-095\_Am\_242m1.endf
- JEFF33-n.tgz expands into
  - endf6/**26-Fe-56g.jeff33\***  
95-Am-242m.jeff33\* (9-F-19g.jeff33\*)
- jendl40-or-up\_20160106.tar.gz expands into
  - jendl40-or-up\_20160106/**Fe056.dat**  
Am242m.dat
- TENDL-n.tgz expands into
  - **n-Fe056.tendl**  
n-Am242m.tendl

# A valuable repository at [nds.iaea.org/exfor/endif.htm](https://nds.iaea.org/exfor/endif.htm)

**Standard Request** Examples: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) Go to: [Advanced Request](#); [ENDF-Explorer](#)

**Parameters:**  Target  Reaction  Quantity

[More Parameters...](#)

**Libraries:**  All  Selected

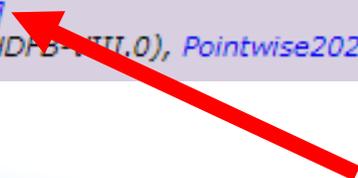
- Major Libraries
  - 1) ENDF/B-VIII.0 (USA,2018)
  - 2) JEFF-3.3 (Europe,2017)
  - 3) JENDL-4.0u2 (Japan,2012)
  - 4) CENDL-3.2 (China,2020)
  - 5) BROND-3.1 (Russia,2016)
  - 6) TENDL-2019 (TALYS, 2019)
- Special Libraries
  - Archival
  - Derived

**Options:** Sort by:  Reactions  Evaluations

**Clone Request:**

**Feedback:**

**Note:**  
all criteria are optional (selected by checking  )  
selected criteria are combined for search with logical AND  
criteria separated in a field by ";" are combined with logical OR  
wildcards and intervals are available  
pointwise libraries contain reconstructed resonances using parameters from MF=2 and applied Doppler broadening at a given temperature.  
Statistics of usage: visits: 8, data search: 36, since 13-May-2021  
Original ENDF libraries and files for FTP downloading: [\[ENDF-Archive\]](#)  
Extensive temperature dependent pointwise libraries: [Point-2018 \(ENDF-B-VIII.0\)](#), [Pointwise2020 \(TENDL-2019\)](#)



# ENDF-Archive

Name	Last modified	Size	Description
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 Parent Directory		-	
 Activ87/	2008-07-22 22:00	-	
 Adl3t/	2008-07-22 22:00	-	
 ADS-2.0/	2020-10-07 14:04	-	
 ADS-HE/	2020-10-07 14:05	-	
 ASİYAD/	2008-07-22 22:00	-	
 Biserm2/	2008-07-22 22:00	-	
 BROND-2-2/	2012-12-19 18:24	-	
 BROND-3.1/	2017-06-08 12:07	-	
 CENDL-2/	2009-01-19 23:00	-	
 CENDL-3.1/	2010-01-21 23:00	-	
 CENDL-3.2/	2020-06-17 11:31	-	
 DXS/	2018-12-19 10:36	-	
 EAF-2010/	2011-11-21 09:52	-	
 ENDF-B-IV/	2008-07-21 22:00	-	
 ENDF-B-V/	2008-07-22 22:00	-	
 ENDF-B-VI-8/	2008-07-22 22:00	-	
 ENDF-B-VII.0/	2009-01-18 23:00	-	
 ENDF-B-VII.1/	2020-12-18 12:36	-	
 ENDF-B-VIII.0/	2018-02-07 18:25	-	
 ENDF-HE-VI/	2008-07-22 22:00	-	

Many filenames unified (Viktor Zerkin), but still many files with mapping rules required for local application

# Unify NDL releases and filenames



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- Three types of data access (?):
  - One tar file with all isotopic files for download
  - All isotopic files separately for download
  - Local use per isotopic file for plotting purposes etc (JANIS, ZVVIEW etc.)
- Examples:
  - n-endfb81.tar
  - p-tendl2021.tar
  - n-fendl33.tar
  - g-jendlpd.tar
- n-jendl40.tar expands into (should this be unified too?)
  - n/JENDL4.0/n\_026-Fe-056\_jendl40.endf etc.
  - And similar for any future NDL
- If general interest, the conventions need to be worked out

# Why?

- Direct access for anyone doing data optimization, plotting etc:
  - n\_026-Fe-056\_endfb80\_MT103.dat
  - n\_026-Fe-056\_jendl40\_MT103.dat
  - n\_026-Fe-056\_jeff33\_MT103.dat
  - n\_026-Fe-056\_MT103\_Mannhart-22976017.exp (of course, the same convention will be used for EXFOR)
- API's
- Consistent access for AI/ML:
  - search for data trends
  - similarity of evaluations, etc. etc.

# Filenames

- Look at the 5 cases again:
  - 95-Am-242m.C32
  - n-095\_Am\_242m1.endf
  - 95-Am-242m.jeff33\*
  - Am242m.dat
  - n-Am242m.tendl
- Is there, for general programming languages and databases a special significance for using ‘\_’ ‘-’ or ‘.’?
- ‘Protare’:
  - separate projectile, target and evaluation by ‘\_’
  - Use ‘-’ for specification inside component
  - Use ‘.’ only for filetype
  - n\_Fe056\_endfb80.endf      or
  - n\_026-Fe-056\_endfb80.endf
  - n\_026-Fe-056\_endfb80.pendf
  - n\_026-Fe-056\_endfb80.ace
  - n\_026-Fe\_056\_endfb80\_MT103.dat

Do we care?  
...or not?



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*Thank you!*

