

**git\_comments:**

1. **comment:** TODO: we really need to probably buffer this on disk since so many newer dictionaries (en\_GB, hu\_HU, etc) now have tons of AM lines (morph metadata) etc before they finally declare their encoding... but for now this large buffer is a workaround  
**label:** code-design

**git\_commits:**

1. **summary:** SOLR-2934: increase buffer size for recent dictionaries with large amounts of AF/AM lines before charset  
**message:** SOLR-2934: increase buffer size for recent dictionaries with large amounts of AF/AM lines before charset git-svn-id: <https://svn.apache.org/repos/asf/lucene/dev/trunk@1574158> 13f79535-47bb-0310-9956-ffa450edef68

**github\_issues:****github\_issues\_comments:****github\_pulls:****github\_pulls\_comments:****github\_pulls\_reviews:****jira\_issues:**

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**label:** code-design

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#### jira\_issues\_comments:

1. Please raise issues like this on the solr user's list (solr-user@lucene.apache.org) first rather than raising a JIRA, JIRAs are for bugs/improvements rather than this kind of issue. If the users list results indicate a problem (rather than a user/data error) exists, then feel free to raise a JIRA.
2. Hey Erick, I asked Nathan to open this issue as he reported it on the mailing list. I want to evaluate whether the problem is in our codebase.
3. Yep, I just saw that and tried to re-open the issue but you beat me to it! I should probably read the user's list before the dev list each morning! My mistake.
4. No worries :)
5. **body:** Might also be a good idea to document somewhere that not all languages' encodings work correctly at the moment. Some of these are crazy-complicated (e.g. hungarian).  
**label:** code-design
6. Great idea
7. **body:** We've seen issues with quite a few dic files as well but the stacktrace makes it difficult to find the error. NumberFormatException (da\_DK) are easy as they print the bad number but ArrayOutOfBoundsException (nl\_NL) are almost impossible to debug. We also see ParseExceptions such as (en\_GB): Caused by: java.text.ParseException: The first non-comment line in the affix file must be a 'SET charset', was: 'FLAG num' at  
org.apache.lucene.analysis.hunspell.HunspellDictionary.getDictionaryEncoding(HunspellDictionary.java:262) at  
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org.apache.solr.analysis.HunspellStemFilterFactory.inform(HunspellStemFilterFactory.java:80) ... 31 more and  
UnsupportedCharsetException (th\_TH): Caused by: java.nio.charset.UnsupportedCharsetException: TIS620-2533 at  
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8. {quote} It seems there are many different issues with the provided dic and aff files and some seem to work and some don't seem to work at all. {quote} What does this mean? We don't provide any dic and aff files!
9. Where did you get your en\_GB dictionary? The one from openoffice has as first line 'SET ISO8859-1'. So if you want bugs fixed with dictionaries, which \*anyone\* can make and can be buggy, you must upload them to this issue (don't check the box), because otherwise we have nothing to work with. There is no point in worrying about adding aliases/matching up charset naming for Thai. The thai spell dictionary is just a list of words (nothing in the .aff except 4 replacement rules for spellchecking), so this whole filter will be a no-op with that dictionary. {noformat} SET TIS620-2533 REP 4 REP à,—à,£ à,¢ REP à,¢ à,—à,£ REP à," à,¢ REP à,¢ à," {noformat}
10. I'm sorry, it means the packages available at OpenOffice.
11. {code} Caused by: java.text.ParseException: The first non-comment line in the affix file must be a 'SET charset', was: 'FLAG num' at  
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12. That page doesn't work for me. {quote} So if you want bugs fixed with dictionaries, which anyone can make and can be buggy, you must upload them to this issue (don't check the box), because otherwise we have nothing to work with. {quote}
13. Indeed! Strange. If you go there via: <http://extensions.services.openoffice.org/en/dictionaries> and this anchor: English dictionaries with fixed dash handling and new ligature and phonetic suggestion support you'll end up on the same page without error.
14. When I click that page it just links to <http://extensions.services.openoffice.org/en/project/dict-en-fixed> and gives the same error. Can you upload your copy?
15. en\_GB.aff and en\_GB.dic files from openoffice.org.

16. I see, indeed this has no CHARSET line. I think the only solution is to allow the user to manually provide this as a parameter in such cases.
17. the same is happening with pt\_BR dict [http://artfiles.org/openoffice.org/contrib/dictionaries/pt\\_BR.zip](http://artfiles.org/openoffice.org/contrib/dictionaries/pt_BR.zip)
18. For the french dictionary for instance, if I understand the mechanism well, it seems that there are some aliases, i.e. "AF ...", "AM ...". These dictionaries are somehow compressed. And in the C++ code there is this part of code : `{code} dash = strchr(piece, '/'); if (dash) { ... if (pHMgr->is_aliasf()) { int index = atoi(dash + 1); nptr->contclasslen = pHMgr->get_aliasf(index, &(nptr->contclass)); } else { nptr->contclasslen = pHMgr->decode_flags(&(nptr->contclass), dash + 1); flag_qsort(nptr->contclass, 0, nptr->contclasslen); } {code}` But I did not find anything similar in the Java Class, the aliases are not loaded I think. Correct me if I'm wrong but it seems not possible to load compressed affix dictionaries currently. Hope this can help.
19. bq. Correct me if I'm wrong but it seems not possible to load compressed affix dictionaries currently. That is correct. Our Java code isn't a direct port from the C++ code, rather it's an implementation designed to suit our needs. It could definitely do with some love in regards to compressed dictionaries. Would you like to open an issue and throw together a patch?
20. And just for information, the ubuntu french hunspell dictionary is not compressed and works perfectly.
21. done : SOLR-3494.
22. I've attached a little patch in the other issue which allows me to load latest French dictionaries of OpenOffice.
23. bulk fixing the version info for 4.0-ALPHA and 4.0 all affected issues have "hoss20120711-bulk-40-change" in comment
24. Please consider look at this again: I can reproduce the original `StringOutOfBoundException` in `DoubleASCIIFlagParsingStrategy` I think this is caused by `for (int i = 0; i < rawFlags.length(); i+=2) { char cookedFlag = (char) ((int) rawFlags.charAt(i) + (int) rawFlags.charAt(i + 1)); // <<< i + 1 here!!! we have used the dictionary with solr 3.3 (+patched with files from LUCENE-3414/SOLR-2769) changed this given line to for (int i = 0; i < rawFlags.length()-1; i+=2) { // <<< reduce size by 1 because of .charAt(i+1) char cookedFlag = (char) ((int) rawFlags.charAt(i) + (int) rawFlags.charAt(i + 1)); this worked flawless for us.`
25. I will take a look Stephan.
26. `rmuir20120906-bulk-40-change`
27. moving all 4.0 issues not touched in a month to 4.1
28. Bulk move 4.4 issues to 4.5 and 5.0
29. Commit 1574158 from [~rcmuir] in branch 'dev/trunk' [ <https://svn.apache.org/r1574158> ] SOLR-2934: increase buffer size for recent dictionaries with large amounts of AF/AM lines before charset
30. Commit 1574159 from [~rcmuir] in branch 'dev/branches/branch\_4x' [ <https://svn.apache.org/r1574159> ] SOLR-2934: increase buffer size for recent dictionaries with large amounts of AF/AM lines before charset
31. Currently we can load all the openoffice dictionaries (at least from the old link). I will test newer dictionaries (thunderbird has a link) later today, especially since it has many that aren't in the openoffice list. This might reveal some issues to fix. As far as EN\_GB.aff,.dic, i committed a fix for this (we use mark/reset to go back once we find the encoding, for now, and i ensured it has a large enough buffer size). As far as the original exception reported by the user (mixing EN\_GB.dic with french affix file, this is not supported. Affix files must "go with" the dictionary as they contain information such as how characters and flags are encoded). As far as Stephen's issue: with long flags, there should never be an odd number of flags. So something is wrong with the dictionary you are using. I haven't seen it yet in the wild with published dictionaries.
32. {quote} Stephan Meisinger added a comment - 16/Jul/12 05:05 Please consider look at this again: I can reproduce the original `StringOutOfBoundException` in `DoubleASCIIFlagParsingStrategy` {quote} Just a followup about that issue with long flags, I found this in a thunderbird dictionary. The bug is not the flag parsing (again it should always be an even number of characters, i added an explicit check for that too!). Instead the bug was that escaping wasn't handled properly. So if the word itself contains a slash, some parts of the word would be bogusly parsed as flags. The escaping was fixed in LUCENE-5497.
33. Close issue after release of 4.8.0