Subject: Re: [PATCH 3/7] perf: add ability to change event according to sample (v2)
Posted by David Ahern on Tue, 06 Dec 2011 14:57:38 GMT
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On 12/06/2011 07:19 AM, Arnaldo Carvalho de Melo wrote:
> Em Mon, Nov 28, 2011 at 12:03:31PM +0300, Andrew Vagin escreveu:
>> It's opposition of perf_session__parse_sample.
>>
>> v2: fixed mistakes which David Arhen found
>
> Ok, I'm taking this one, David, can I added an 'Acked-by: you"? Or even
> "reviewed-by:" ?
>
> I'm just changing 'data' to 'sample', data is way to vague, I kept it
> for a while in the past just to reduce patch size, but this is something
> completely new, so better use 'sample'.
>
> - Arnaldo
>
>> Signed-off-by: Andrew Vagin <avagin@openvz.org>
>> ---
>> tools/perf/util/event.h | 2 +
>> tools/perf/util/evsel.c | 74 ++
>> tools/perf/util/session.h | 9 +++++
>> 3 files changed, 85 insertions(+), 0 deletions(-)
>>
>> diff --git a/tools/perf/util/event.h b/tools/perf/util/event.h
>> index 357a85b..0493101 100644
>> --- a/tools/perf/util/event.h
>> +++ b/tools/perf/util/event.h
>> @@ -187,5 +187,7 @@ const char *perf_event__name(unsigned int id);
>> int perf_event__parse_sample(const union perf_event *event, u64 type,
>>   int sample_size, bool sample_id_all,
>>   struct perf_sample *sample, bool swapped);
>> +int perf_event__change_sample(union perf_event *event, u64 type,
>> +   const struct perf_sample *data, bool swapped);
>>
>> #endif /* __PERF_RECORD_H */
>> diff --git a/tools/perf/util/evsel.c b/tools/perf/util/evsel.c
>> index e426264..d697568 100644
>> --- a/tools/perf/util/evsel.c
>> +++ b/tools/perf/util/evsel.c
>> @@ -494,3 +494,77 @@ int perf_event__parse_sample(const union perf_event *event, u64
type,
>>
>>   return 0;
>> }
>> +

```
>> +int perf_event__change_sample(union perf_event *event, u64 type,
>> +        const struct perf_sample *data, bool swapped)
>> +{
>> + u64 *array;
>> +
>> + /*
>> +  * used for cross-endian analysis. See git commit 65014ab3
>> +  * for why this goofiness is needed.
>> +  */
>> + union {
>> +  u64 val64;
>> +  u32 val32[2];
>> + } u;
>> +
>> + array = event->sample.array;
>> +
>> + if (type & PERF_SAMPLE_IP) {
>> +  event->ip.ip = data->ip;
>> +  array++;
>> + }
>> +
>> + if (type & PERF_SAMPLE_TID) {
>> +  u.val32[0] = data->pid;
>> +  u.val32[1] = data->tid;
>> +  if (swapped) {
>> +   /* undo swap of u64, then swap on individual u32s */
```

Comment is from the parse sample code; this is the inverse of that code
so the comment needs to be updated here.

```
>> +   u.val32[0] = bswap_32(u.val32[0]);
>> +   u.val32[1] = bswap_32(u.val32[1]);
>> +   u.val64 = bswap_64(u.val64);
>> +  }
>> +
>> +  *array = u.val64;
>> +  array++;
>> + }
>> +
>> + if (type & PERF_SAMPLE_TIME) {
>> +  *array = data->time;
>> +  array++;
>> + }
>> +
>> + if (type & PERF_SAMPLE_ADDR) {
>> +  *array = data->addr;
>> +  array++;
>> + }
```

```
>> +
>> + if (type & PERF_SAMPLE_ID) {
>> +  *array = data->id;
>> +  array++;
>> + }
>> +
>> + if (type & PERF_SAMPLE_STREAM_ID) {
>> +  *array = data->stream_id;
>> +  array++;
>> + }
>> +
>> + if (type & PERF_SAMPLE_CPU) {
>> +  u.val32[0] = data->cpu;
>> +  if (swapped) {
>> +   /* undo swap of u64, then swap on individual u32s */
```

Ditto on that comment.

I did not test it, but the logic is in the inverse of parse_sample so it should be correct.

Arnaldo: you could use remove the 2 comment lines on the commit since there are no logic impacts.

Reviewed-by: David Ahern <dsahern@gmail.com>

David