



链滴

BeanCopier 使用小结

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原文链接: <https://ld246.com/article/1488438132798>

来源网站: [链滴](#)

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选择Cglib的BeanCopier进行Bean拷贝的理由是，其性能要比Spring的BeanUtils，Apache的BeanUtils和PropertyUtils要好很多，尤其是数据量比较大的情况下

```
public class AccountEntity {
    private int id;
    private Timestamp createTime;
    private BigDecimal balance;
    // Getters and setters are omitted
}

public class AccountDto {
    private int id;
    private String name;
    private String createTime;
    private String balance;
    // Getters and setters are omitted
}

// 不使用Converter
public class BeanCopierConverterTest {

    @Test
    public void noConverterTest() {
        AccountEntity po = new AccountEntity();
        po.setId(1);
        po.setCreateTime(new Timestamp(10043143243L));
        po.setBalance(BigDecimal.valueOf(4000L));
        BeanCopier copier = BeanCopier.create(AccountEntity.class, AccountDto.class, false);
        AccountDto dto = new AccountDto();
        copier.copy(po, dto, null);
        Assert.assertNull(dto.getCreateTime()); // 类型不同，未拷贝
        Assert.assertNull(dto.getBalance()); // 类型不同，未拷贝
    }
}

//使用Converter
package net.sf.cglib.core;

public interface Converter {
    // value 源对象属性，target 目标对象属性类，context 目标对象setter方法名
    Object convert(Object value, Class target, Object context);
}

@Test
public void converterTest() {
    AccountEntity po = new AccountEntity();
    po.setId(1);
    po.setCreateTime(Timestamp.valueOf("2014-04-12 16:16:15"));
    po.setBalance(BigDecimal.valueOf(4000L));
    BeanCopier copier = BeanCopier.create(AccountEntity.class, AccountDto.class, true);
    AccountConverter converter = new AccountConverter();
    AccountDto dto = new AccountDto();
    copier.copy(po, dto, converter);
}
```

```

    Assert.assertEquals("2014-04-12 16:16:15", dto.getCreateTime());
    Assert.assertEquals("4000", dto.getBalance());
}

static class AccountConverter implements Converter {

    SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");

    @SuppressWarnings("rawtypes")
    @Override
    public Object convert(Object value, Class target, Object context) {
        if (value instanceof Integer) {
            return (Integer) value;
        } else if (value instanceof Timestamp) {
            Timestamp date = (Timestamp) value;
            return sdf.format(date);
        } else if (value instanceof BigDecimal) {
            BigDecimal bd = (BigDecimal) value;
            return bd.toPlainString();
        }
        return null;
    }
}
}

```

注：一旦使用Converter，BeanCopier只使用Converter定义的规则去拷贝属性，所以在convert方中要考虑所有的属性。